

PAD PRINTING INKS

PRODUCT RANGE



TAMPON PRINTING MACHINES
ACCESSORIES
SERVICE

For all tampon printing systems

technologies for your future
made in germany

ORIGINAL

TAMPOPRINT®

Tampon printing machines
ALFALAS® Laser Systems
Automations

Visit us!
Machines exhibition open year-round.



"Wilfried Philipp",
president und owner. Inventor of
industrial tampon printing.



TAMPOPRINT®
International Corp.
USA since 1994
subsidiary

TAMPOPRINT® IBERIA
S.A.U.
Spain since 2000
subsidiary
www.tampoprint.es



"Ventres et Affaires
Françaises"
TAMPOPRINT® AG
Germany

ALFA TOOLS Spezial-
maschinenfabrik GMBH
Sister company



YOUR SYSTEM PROVIDER

WE ABOUT US

We, a medium-sized German manufacturer of special machines, are an innovator and an established system provider for the industry.

Thanks to the invention of the industrial tampon printing process by the owner and president Wilfried Philipp in 1968, enormous process changes were made possible to the production processes in the plastics industry.

Many different manufacturing processes would not have been possible today without the tampon printing.

With our second product group ALFALAS® laser systems we offer you an expansion of the marking technology - from the hand-work place to the fully automatic system.

The patented combination of tampon printing and laser technology makes our product range perfect.

Our service "everything under one roof" comprises: print-technological accessories, machine options, consumables, guaranteed spare parts supply, maintenance and training. Your complete requirements covered by one single supplier. Your personal online shop allows to reorder your material requirements 24h every day.



12 Standard ink types which are exclusively available only at TAMPOPRINT® AG.

HS, L, LC, M, N, O, Q, R, RDF, S, U-HF, UV-RDF.

Together with leading ink manufacturers specifically modified for the perfect tampon printing. They are not available for direct distribution through the ink manufacturers.

> more than 150 patents – TAMPOPRINT® worldwide

> Trademarks of TAMPOPRINT® AG



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*= These ink types are also available as basic inks. According to the RAL or Pantone ink mixing system.



26 STANDARD INKS

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Tampon printing inks in general

In tampon printing, both process screen printing inks (CMYK) and covering tampon printing inks in many different ink shades are used.

The extensive range of tampon printing inks now enables customers to select a tampon printing ink type tailored precisely to their needs. In addition, we always ensure that all the statutory standards and requirements of our customers correspond to the lowest possible burden on health.

Depending on the material to be printed and the resistance requirements of the tampon printing inks, 1- or 2-component inks are used.

UV tampon printing inks

For special requirements, we offer a UV tampon printing ink (1-component).

Preferentially used if high quality is demanded for rapid-running tampon printing systems.

Low solvent concentration corresponds with the increased environmental consciousness and ensures at the same time a reliable production flow with a high-quality printing result. The immediate further processing due to short drying times is a clear investment for the future.



Environmentally-friendly tampon printing inks

Based on current issues in dealing with environment and nature TAMPOPRINT® has been developing innovative tampon printing inks together with well-known manufacturers in the printing inks industry. This shows the constant innovativeness as well as the environmental awareness of our company. The ink types meet the increasing demands of our customers for tampon printing inks which are free from halogen and cyclohexanone or printing inks which consist at a large part from renewable raw materials.

Mineral oil free packaging production

Inks, materials, processes

Our inks have a low mineral oil content as we are working on solvent basis. In the gravure packaging printing or in the offset printing high-boiling mineral oils are used which have to be expelled from the printing film using high temperatures

(over 200°C). This is not the case with us.

Contrary to the heatset inks, our solvent-based inks are of course of advantage here – see "Top Spin LC". The heatset inks dry faster. After printing the printing process is fully completed. Our solvent-based inks still need here a reaction time of 24 h up to 5 days. With heat they will react again faster, however, they are not located in this high temperature range as are the heatset inks. Of course, it is not possible to generalise the offset printing process since also coldset inks or UV inks are used.

Our service

More and more importance is being placed upon the provision of rapid service in the standard and special ink types area and the ability to deliver basic ink types in standard and special ink shades. TAMPOPRINT® is able to guarantee this rapid service despite the wide range of ink types and shades it offers.

Material safety data sheets

Current material safety data sheets are available at any time. Please address your enquiries to:
colourmsds@tampoprint.de

Important note

Generally all components used should be from one and the same manufacturer.

Generally ink shades from only one ink type should be mixed.

e.g.: Ink type "B" = ink shade 01 + ink shade 07.

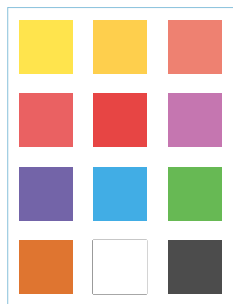
Processing of other media in tampon printing

In addition to tampon printing inks, other media such as primers, adhesives and lubricants, silicone or soldering pastes, precious metals, electrically conductive pastes or thermally conductive pastes can also be transferred to your product in the tampon printing process.

In individual cases, the ability to do this must be checked and tested by our application technology department.

3 CATEGORIES

TAMPON PRINTING INKS



Recipes for basic colours

Using 12 basic ink shades, we offer our customer the option of mixing their own special ink shades. We will be happy to advise you or provide you with a wide range of recipes. Ink types: HS, N, O, Q, R. On request: B and P. Our ink mixing system according to RAL and Pantone can be obtained as an Acrobat PDF file on request. HKS ink mixing system on request. See ink shade card on page 7.



Standard ink shades

The 23 standard ink shades (of standard and special inks) available from the TAMPOPRINT® AG warehouse in Germany are premixed ink shades which already cover a number of applications. This area also includes European ink shades for screened 4-colour printing (CMYK) (exception: ink types C and E) as well as gold and silver. The coverage of the ink types and shades also depends on the material to be printed and the engraving depth, cliché screening and the number of prints (individual or double print/multicolour print). For application characteristics of the ink types see pages 10-61. See ink shade card on page 6.



Special ink shades from our ink laboratory

Special inks service: The desired ink shade is manufactured in our ink laboratory according to your ink samples or specifications. According to the ink shade systems: RAL, PMS, NCS, HKS K (gloss), HKS (N) (matt) All ink types of our pad printing inks product range.

Note: All TAMPOPRINT® solvent-based inks are available in 1-l containers. Depending on the specific weight differences of the respective ink types, a 1-l container may weigh between 1.2 – 2.0 kg!

TAMPOPRINT® UV tampon printing inks as well as the LC and RDF tampon printing inks are available in 1-kg containers. The specific weight differences of the individual ink types may mean that the containers are not completely full.



STANDARD INK SHADES

INK TYPES

Determining the parts/order number

To determine the parts number, please add the two-digit number of the respective ink type to the parts number and state the complete number in the order.

Example: 10 09 XX

Ink shade according to ink shade card
Ink type

01	schwarz black noir negro		11	bordeaux rot bordeaux red bordeaux burdeos		21	brillant grün green brilliant vert brillant verde brillante	
02	weiß white blanc blanco		12	rosa pink rose rosa		22	braun hell brown light brun clair marrón claro	
03	zitronengelb citron yellow jaune citron amarillo limón		13	blau hell blue light bleu clair azul claro		23	braun dunkel brown dark brun foncé marrón oscuro	
04	gelb mittel yellow medium jaune moyen amarillo medio		14	blau mittel blue medium bleu moyen azul medio				
05	gelb dunkel yellow dark jaune foncé amarillo oscuro		15	blau ultra blue ultra bleu ultra azul ultra		51	silber silver argent plata	
06	orange orange orange naranja		16	blau dunkel blue dark bleu foncé azul oscuro		52	gold gold or ore	
07	gelb ocker ochre yellow jaune ocre amarillo ocre		17	türkis turquoise turquoise turquesa				
08	rot hell red light rouge clair rojo claro		18	violett violet violet violeta				
09	signalrot red bright rouge vif rojo vivo		19	grün hell green light vert clair verde claro				
10	karmenrot carmine rouge carmin rojo carmin		20	tannengrün green fir vert sapin verde pino				

European ink shades

CMYK inks for the photo-realistic presentation

80	yellow Europaton lasierend process yellow Europe shade yellow (jaune) Europe effet lasuré color de cuatricomía amarillo Europa
81	magenta Europaton lasierend process magenta Europe shade magenta Europe effet lasuré color de cuatricomía magenta Europa
82	cyan Europaton lasierend process cyan Europe shade cyan Europe effet lasuré color de cuatricomía cyan Europa

Note: The ink shades shown here do not correspond to the actual appearance of the individual ink types and may only serve as an indicator.



BASIC INKS

RAL/PANTONE INK MIXING SYSTEM

Determining the parts/order number

To determine the parts number, please add the two-digit number of the respective ink type to the parts number and state the complete number in the order.

Example: 10 09 XX

Ink shade according to ink shade card
Ink type

61	zitronengelb citron yellow jaune citron amarillo limón		71	weiß white blanc blanco	
62	gelb yellow jaune amarillo		72	schwarz black noir negro	
63	orange orange orange naranja				
64	rot hell red light rouge clair rojo claro				
65	rot red rouge rojo				
66	rosa pink rose rosa				
67	violett violet violet violeta				
68	blau blue bleu azul				
69	grün green vert verde				
70	braun hell brown light brun clair marrón claro				

Tampon printing machines
Special machines construction
Laser systems and automations
Digital ink-jet printers

ORIGINAL
TAMPOPRINT
Germany

TAMPOPRINT Ink Mixing System

for tampon printing inks

12 basic colours = approx. 1,000 colour shades
for TAMPOPRINT-COLOR series

O, R, N, HS, Q
(according to the Pantone or RAL ink mixing system)

Note: The ink shades shown here do not correspond to the actual appearance of the individual ink types and may only serve as an indicator.



STANDARD INK TYPES

MATERIALS TO BE PRINTED

Regarding the major variations in chemical structure and the manufacturing method of the materials to be printed, in principle a suitability test (test print) is to be carried out. Antistatic additives, separating agents and lubricants may have a negative effect on the ink adhesion.

Material to be printed	B	B/GL	C	E	F	GU	GU-N	HS	K	L	LC	LOGO	M	N	O	P	Q	R	RDF	S	TH	TP-CD	TP-PP	U-HF	UV-RDF	W
Components	2-C	2-C	1-C	1-C	1-C	1-C	1-C	1-C	1-C	1-C	1-C	2-C	2-C	2-C	1-C	1-C	1-C	1-C	1-C	2-C	1-C	1-C	1-C	1-C	2-C	2-C
ABS																										
Acrylic glass																										
Aluminium																										
Aluminium, anodised																										
Cellulose acetate																										
Thermosetting plastics																										
Elastomers																										
Glass																										
Rubber																										
Epoxy resins																										
Rigid PVC																										
HDPE, LDPE (x3)	x3							x3					x3	x3		x3	x3	x3	x3					x3	x3	x3
Wood																										
Ceramic																										
Leather																										
Lexan																										
Makrolon (PC)																										
Metal																										
Non-ferrous metal																										
Noryl																										
Novodur (SAN)																										
Lacquered surface																										
Powder coated surface																										
Chrome/nickel/gold/rhodium-plated surface																										
Paper																										
PETP = PET = HS																										
Polyacetate (x1)	x1							x1			x1			x1		x1	x1	x1								
Polyamide																										
Polyethylene (x3)	x3							x3	x3	x3	x3		x3	x3		x3	x3	x3	x3		x3		x3	x3	x3	x3
Polycarbonate																										
Polyester																										
Polyhydroxyalkanoate (PHA)																										
Polymethacrylate																										
Polymethylmethacrylate																										
Polypropylene (x3)	x3							x3	x3	x3	x3		x3	x3	x3	x3	x3	x3	x3		x3		x3	x3	x3	x3
Polystyrene																										
Polyurethane																										
Heat-resistant moulding material																										
Powder coatings																										
PV																										
SAN																										
Soft lacquers																										
Textiles																										
Thermoplastics TPE																										
UV lacquer																										
Soft PVC																										

x1 = only with thermal aftertreatment approx. 130° C (with gas flame or oven)

x2 = without pretreatment with 10% PP or PPO coupling agent

x3 = only with pretreatment

1-C = 1-component ink

2-C = 2-component ink

Tampon printing inks
HALOGEN-FREE
CYCLOHEXANONE-FREE

ORIGINAL

TAMPOPRINT

STANDARD INK TYPES

CHARACTERISTICS & RESISTANCE

Overview of the characteristics of the ink film with selection of the ink type, taking into account the material. The table gives information on the mechanical load capacity, the optical appearance as well as information on additional processing options of the ink film.

Characteristic	B	B/GL	C	E	F	GU	GU-N	HS	K	L	LC	LOGO	M	N	O	P	Q	R	RDF	S	TH	TP-CD	TP-PP	U-HF	UV-RDF	W
Impact resistant																										
Can be inscribed				•																						
Block resistant								•	•	•	•		•	•	•	•	•	•	•	•				•	•	
Permanently elastic						•	•	•	•		•	•	•	•	•		•				•					•
Gloss ink	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Good coverage	•	•		•				•	•		•	•	•	•	•			•	•	•	•		•	•	•	•
Suitable for food wrappings (exterior)	•	•	•	•	•			•	•	•	•		•	•	•	•	•	•	•	•			•	•	•	•
Air drying	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Matt ink	★			•	★			★		★			★	★	★	★	★	★				★		★		
Oven drying	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Suitable for screen printing	•	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•				•	•	•
Abrasion resistant		•						•	•	•	•	•	•	•	•			2K	•	•				•	•	
Cutting/punching resistant									•						•											
Satin-finish ink		•			•	•	•																			
Stackable								•	•		•				•				•					•	•	
Can be deep drawn					•	•	•		•						•											
Slow drying	•	•								•		•	•	•												
Quick drying				•	•	•	•	•	•		•				•			•	•	•		•		•		
Flow (good)	•	•		•	•			•	•	•	•	•	•	•	•	•	•	•	•	•				•	•	•
Can be bonded				b	•				•						•											
Mechanical resistance	•	•	•						•	•		•	•	•	•	•	•	•	•	b	•	•	•	•	•	•

★ = Special ink upon request

b = limited

Data regarding the resistances of an ink type on a suitable material.

The table describes the resistance of an ink type when exposed to one of the agents listed (e.g. light).


Resistance	B	B/GL	C	E	F	GU	GU-N	HS	K	L	LC	LOGO	M	N	O	P	Q	R	RDF	S	TH	TP-CD	TP-PP	U-HF	UV-RDF	W
Alcohol	•	•	•	•		2-C	2-C	2-C	•	•	2-C		•	•	•	2-C	b	2-C	2-C	•		b 2-C		2-C	•	•
Cleaning agent containing alcohol	•	•	•	•		2-C	2-C	2-C	•	•	2-C		•	•	•	2-C	b	2-C	2-C	•		b 2-C	b	2-C	•	•
Chemicals	b	b	•	b	•	•	•	2-C	•	•	2-C	•	•	•	b	b	•	•	2-C	•	•	b	•	2-C	•	•
Hand perspiration	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•
Light						b	•	•	b	•	b	•	b	b	•			b	b	•		•	•	•	•	
Organic solvent	•	•	•	b				•	•	•			•	•	b		•	•				b		•	•	•
Oils and fats	•	•	•			•	•	•	•	•	2-C		•	•	•	•	•	b 2-C	2-C	b 2-C	•	•	b	•	•	•
Diluted alkalis	•	•	•			b	b	•	•	•	b	b	•	•	b	•	•	•	2-C	•	b			•	•	•
Diluted acids	b	•				b	b	2-C	b 2-C	•	b		•	•	b	b		2-C	b	•				2-C	•	•
Water	•	•	•	•		2-C	2-C	b	b	•	b	•	•	•	•	2-C			b	•		•	b	2-C	•	•
Weather						•	•		b	•		•	b	b	•					•	•	•	•	•	•	

b = limited

Application data sheet

B-NT

2-component ink, gloss ink Available as matt ink on request.

Applications:	Used in "open" and "hermetic" tampon printing systems. Popular in the automotive industry on PA, PP, PE materials.
Materials to be printed:	Cellulose acetate, thermosetting plastics, metal, Noryl, powder-coated and lacquered surfaces, polyamide, polyacetate aftertreated with heat, pretreated polyethylene and polypropylene, SAN.
Characteristics:	Good coverage, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, slow drying, good flow, excellent mechanical resistance.
Resistance:	Chemicals (limited), hand perspiration, organic solvents, oils and fats, diluted alkalis, diluted acids (limited), water. The mechanical and chemical resistance is only achieved after the ink has fully hardened.
Pretreatment:	All polyolefines, polyethylene, polypropylene
Additives:	VD thinner slow-drying VD 3 thinner quick-drying VZ retarder BH hardener
Drying:	After the BH hardener is added, chemical-physical drying. At room temperature (20-25° C) approx. 10-15 min., hand and touch-dry. With thermal influence / air circulation approx. 1 min., with thermal diffusion for a few seconds. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	At room temperature (20-25° C) approx. 5-6 days. At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Storing:	BH hardener approx. 1-2 years in sealed original container when stored in cool and dry location.
Printing consistency:	4 parts ink B : 1 part BH hardener. Ink ready for printing – add 10-20% VD or VD 3 thinner. Retarder – only use VZ retarder. Pot life of the mixed ink approx. 8 hours, after this you may have to deal with reduced adhesion and resistance even if the ink still appears fluid and ready for use.
Typographical information:	When processing, cans containing BH hardener must be tightly sealed immediately after removal.
Ability to overprint:	Within 24 hours.
Note:	The high mechanical and chemical resistance is only achieved after complete curing of the ink.
Risk information:	 The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use our tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

B-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	02	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	02	50	Bronze binder	1 litre			
10	02	51	Black matt	1 litre			
10	02	52	White matt	1 litre			
10	02	57	Ochre yellow matt	1 litre			
10	02	51	Silver	1 litre			
10	02	52	Gold	1 litre			
10	02	80	Process yellow Europe shade	1 litre			
10	02	81	Process magenta Europe shade	1 litre			
10	02	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
10	02	83	Transparent paste	1 litre			
Parts no.			Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg		
12	91	01	VD	5 litres	approx. 5 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	01	VZ	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	02	99	BH	0.2 litre	approx. 0.2 kg		
12	53	01	BH	0.5 litre	approx. 0.5 kg		
12	03	01	BH	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	94	05	Tampon cleaner	5 litres	approx. 5 kg		

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433under: <http://www.tampoprint.de> (Enquiry form)**Material safety data sheets:**

Please address your enquiries to


colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.

Application data sheet



2-component ink, satin finish

Applications:	Special applications: Bottles, drinking glasses and glass in general, sanitary ware industry, e.g. armatures.
Materials to be printed:	Aluminium anodised, thermosetting plastics, glass, ceramic, metal, non-ferrous metal, chrome/nickel/gold/rhodium plated.
Characteristics:	Good coverage, slow drying, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion-resistant, good flow, good mechanical resistance.
Resistance:	Against: Diluted alkalis, alcohol, cleaning agents containing alcohol, chemicals (limited), hand perspiration, organic solvents, oils and fats, diluted acids, water.
Pretreatment:	-
Thinner / retarder / hardener / additive:	VD thinner slow-drying VD 3 thinner quick-drying BH/GL hardener (for higher solvent resistance), BH/GL-02 hardener (for higher water resistance) VL levelling agent
Drying:	After the BH/GL hardener is added, chemical-physical drying. With BH/GL hardener, better results are achieved only after oven drying at 140°C for 20 minutes. At room temperature (20-25° C) approx. 10-15 min., with thermal influence / air circulation approx. 40-60 sec., max. resistance is achieved by oven drying at 140° C for approx. 20 min.
Curing:	At room temperature (20-25° C) approx. 5-6 days. At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Storing:	BH/GL hardener approx. 1-2 years in sealed original container when stored in cool and dry location.
Printing consistency:	20 parts B/GL ink : 1 part BH/GL or BH/GL-02 hardener Ink ready for printing = add 10-20% VD or VD 3 thinner. Pot life of the mixed ink approx. 8 hours, after this you may have to deal with reduced adhesion and resistance even if the ink still appears fluid and ready for use.
Typographical information:	If there is disruption to the flow, use VL levelling agent (max. 10%). When processing, cans containing BH/GL hardener must be tightly sealed immediately after removal.
Ability to overprint:	Within 24 hours.
Note:	The high mechanical and chemical resistance is only achieved after complete curing of the ink or after oven drying.
Risk information:	 The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

B/GL-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	23	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	23	50	Bronze binder	1 litre			
10	23	51	Silver	1 litre			
10	23	52	Gold	1 litre			
10	23	80	Process yellow Europe shade	1 litre			
10	23	81	Process magenta Europe shade	1 litre			
10	23	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg		
12	91	01	VD	5 litres	approx. 5 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	23	00	BH / GL-02	0.2 litre	approx. 0.2 kg		
12	53	00	BH / GL-02	0.5 litre	approx. 0.5 kg		
12	03	00	BH / GL-02	1 litre	approx. 1 kg		
12	53	05	BH / GL	0.5 litre	approx. 0.5 kg		
12	03	05	BH / GL	1 litre	approx. 1 kg		
Parts no.			Levelling agent	Container	kg		
12	05	01	VL	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade (ink shade card - page 6)** to the **parts number** and state the complete number in the **order**.

Application data sheet

C-NT

1-component ink - Stoving ink, gloss ink

Applications:	Preferred choice for metals.
Materials to be printed:	Thermosetting plastics, glass, metal, lacquered surfaces, polyester.
Characteristics:	C ink must be oven dried. Suitable for food wrappings (exterior), very high mechanical resistance.
Resistance:	Against: Alcohol, cleaning agents containing alcohol, chemicals, hand perspiration, organic solvents, oils and fats, diluted alkalis, water.
Pretreatment:	-
Thinner / retarder / hardener / additive:	VD thinner slow-drying VD 3 thinner quick-drying VZ retarder
Drying:	C inks require particular temperatures and drying times for curing: at 120°C approx. 30-40 min., at 140°C approx. 20-30 min., at 160°C approx. 15-20 min., at 180°C approx. 10-15 min. No yellowing occurs at the specified times and temperatures.
Curing:	Stoving ink
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	Ink ready for printing – add 15-30% VD or VD 3 thinner. Retarder – only use VZ retarder.
Typographical information:	-
Ability to overprint:	-
Note:	Special versions have been developed for printing products in the semi-conductor industry (ICS).
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

C-NT

FAX +49 7150 928-433

Our range				Your requirements		
Parts no.		Standard ink shade	Container	Contents	Unit	Ink shade
10	03	01** - 04**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l	
10	03	06**	Standard ink shade	1 litre		
10	03	08** - 11**	Standard ink shades	1 litre		
10	03	13** - 15**	Standard ink shades	1 litre		
10	03	17**	Standard ink shade	1 litre		
10	03	19**	Standard ink shade	1 litre		
10	03	22**	Standard ink shade	1 litre		
Other ink shades on request						
10	03	50	Bronze binder	1 litre		
Parts no.		Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg	
12	91	01	VD	5 litres	approx. 5 kg	
12	01	04	VD 3	1 litre	approx. 1 kg	
Parts no.		Retarder	Container	kg		
12	02	01	VZ	1 litre	approx. 1 kg	
Parts no.		Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg	
12	94	01	RM	30 litres	approx. 30 kg	
Parts no.		Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg	
12	94	05	Tampon cleaner	5 litres	approx. 5 kg	



Contact us:

Sales Tampon printing ink.
 E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433
 under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to
 colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade (ink shade card - page 6)** to the **parts number** and state the complete number in the **order**.



Application data sheet

E

E-NT

1-component ink, matt ink

Applications:	Excellent for inscribing, e.g. with pencil, ink, etc.
Materials to be printed:	For all kinds of thermoplastics with the exception of polyolefines. Rigid PVC, wood, Makrolon, paper, polycarbonate, polystyrene.
Characteristics:	Can be inscribed, good coverage, suitable for food wrappings (exterior), air drying, matt ink, oven drying, suitable for screen printing, quick drying, good flow. Limited: Can be bonded.
Resistance:	Against: Cleaning agents containing alcohol, alcohol, water. Limited: Organic solvents, chemicals.
Pretreatment:	-
Thinner / retarder / hardener / additive:	VD thinner slow-drying VD 3 thinner quick-drying VZ retarder
Drying:	Very quick physical drying. At room temperature (20-25° C) approx. 1-3 min., with thermal influence / air circulation approx. 10-20 sec.
Curing:	Room temperature 24 hours. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaran- teed.
Printing consistency:	Ink ready for printing – add 10-20% VD or VD 3 thinner. Retarder – only use VZ retarder.
Typographical information:	-
Ability to overprint:	Yes
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 con- tains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisi- ons of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.



A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

E-NT

FAX +49 7150 928-433

E

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	05	01** - 10**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	05	12** - 18**	Standard ink shades	1 litre			
10	05	20**	Standard ink shade	1 litre			
10	05	22** - 23**	Standard ink shades	1 litre			
Other ink shades on request							
10	05	50	Bronze binder	1 litre			
Parts no.			Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg		
12	91	01	VD	5 litres	approx. 5 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	01	VZ	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

F-NT

1-component ink, satin finish

F

Applications:	Printing on metals where the requirements of 2-component inks are not significant.
Materials to be printed:	Aluminium anodised, rigid PVC, metal, lacquered surfaces.
Characteristics:	Suitable for food wrappings (exterior), air drying, oven drying, can be deep drawn, quick drying, dispersion (good), can be bonded.
Resistance:	Against: Chemicals
Pretreatment:	-
Thinner / retarder / hardener / additive:	VD 2 thinner VZ 3 retarder
Drying:	Very quick physical drawing, thermal shock drying 10-20 seconds. Wipe-dry and touch-dry in 1-2 minutes.
Curing:	At room temperature (20-25° C). Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + /approx. 20 min. depending on ink layer thickness).
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	Ink ready for printing – add 10-20% VD 2 thinner. Retarder – only use VZ 3 retarder.
Typographical information:	-
Ability to overprint:	Yes
Note:	The high mechanical and chemical resistance is only achieved after complete curing of the ink. ■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Risk information:	The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.



A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

F-NT

FAX +49 7150 928-433

F

Our range				Your requirements		
Parts no.			Standard ink shade	Container	Contents	Unit Ink shade
10	06	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l	
10	06	50	Bronze binder	1 litre		
10	06	51	Silver	1 litre		
10	06	52	Gold	1 litre		
10	06	80	Process yellow Europe shade	1 litre		
10	06	81	Process magenta Europe shade	1 litre		
10	06	82	Process cyan Europe shade	1 litre		
Other ink shades on request						
Parts no.			Thinner	Container	kg	
12	01	02	VD 2	1 litre	approx. 1 kg	
12	91	02	VD 2	5 litres	approx. 5 kg	
Parts no.			Retarder	Container	kg	
12	02	03	VZ 3	1 litre	approx. 1 kg	
Parts no.			Cleaning agent	Container	kg	
12	04	01	RM	1 litre	approx. 1 kg	
12	94	01	RM	30 litres	approx. 30 kg	
Parts no.			Tampon cleaner	Container	kg	
12	04	04	Tampon cleaner	1 litre	approx. 1 kg	
12	04	05	Tampon cleaner	5 litres	approx. 5 kg	

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade (ink shade card - page 6)** to the **parts number** and state the complete number in the **order**.



Application data sheet

GU-NT

1- and 2-component ink, satin finish

GU

Applications:	Elastic tampon printing ink type, often used in the automotive industry and by tools manufacturers.
Materials to be printed:	Elastomers, rubber, PV, soft lacquers, thermoplastics, soft PVC.
Characteristics:	Permanently elastic, air drying, oven drying, quick drying, can be deep drawn. Against: Chemicals, hand perspiration, oils and fats, weather.
Resistance:	Limited: Light, diluted alkalis, diluted acids. 2-component ink: Cleaning agents containing alcohol, alcohol, water.
Pretreatment:	-
Thinner / retarder / hardener / additive:	TP-GU thinner BH hardener BH-N hardener Physical or chemically drying. Air drying (20° C) approx. 1 min., with thermal influence approx. 10-20 sec.
Drying:	Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	2-component ink approx. 2-3 days.
Storing:	Approx. 1/2 year in sealed original container, stored in cool and dry location.
Printing consistency:	The GU ink can be used as a 1- or 2-component ink. 10 parts GU ink : 1 part BH hardener. Pot life of the mixed ink at 20° C approx. 8 hours.
Typographical information:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, GU inks can also be used as 2-component printing inks. With BH-N hardener, GU ink types have better adhesion properties on a flexible background.
Ability to overprint:	1-component ink yes, 2-component ink within 24 hours.
Note:	Please take the longer delivery time into account when ordering.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.



A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

GU-NT

FAX +49 7150 928-433

GU

Our range

Your requirements

Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	09	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	09	50	Clear colour	1 litre			
10	09	51	Silver	1 litre			
10	09	52	Gold	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	18	TP-GU	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	02	99	BH	0.2 litre	approx. 0.2 kg		
12	53	01	BH	0.5 litre	approx. 0.5 kg		
12	03	01	BH	1 litre	approx. 1 kg		
12	23	08	BH-N	0.5 litre	approx. 0.5 kg		
12	03	08	BH-N	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

GU-N-NT

1- and 2-component ink, satin finish

GU-N

Applications:	Tampon printing ink type, preferentially used for the printing of flexible undergrounds.
Materials to be printed:	Textiles, rubber, leather, artificial leather, polyurethane, soft PVC, TPE, elastomers, soft lacquers.
Characteristics:	Quick drying, air drying, oven drying, satin finish, average covering power, can be deep drawn. The print is permanently elastic and largely allows deformations of the underground.
Resistance:	Against: Chemicals, hand perspiration, light, oils and fats, weather. Limited: Diluted alcalis, diluted acids. 2-component ink: alcohol, cleaning agents containing alcohol, water.
Pretreatment:	Pretreatment must be checked.
Thinner / retarder / hardener / additive:	Thinner VD slow-drying Thinner VD 3 quick-drying Hardener BH-N
Drying:	Physical or chemical drying. Room temperature (20-25° C) approx. 1-2 minutes. With thermal influence approx. 10-20 seconds.
Curing:	2-component ink approx. 3 days (room temperature 20-25° C).
Storing:	Approx. 1/2 year sealed original container, stored in cool and dry location. Please take the longer delivery time into account when ordering.
Printing consistency:	The ink GU-N can be used as 1- and 2-component ink. 10 parts ink GU-N : 1 part Hardener BH-N 15-30% Thinner VD or VD 3 Pot life of the mixed ink at 20° C approx. 8 hours.
Typographical information:	As the printing material can strongly differ with regard to their chemical constitution and the manufacturing method, it is always necessary to carry out a suitability test.
Ability to overprint:	1-component ink yes, 2-component ink within 24 hours.
Note:	When exposed to greater chemical and mechanical loads or when a greater level of adhesion is required, the ink type GU-N can also be used as 2-component ink.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

GU-N-NT

FAX +49 7150 928-433

Our range

Parts no.				Standard ink shade	Container	Contents	Unit	Ink shade
13	28	01** - 06**		Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
13	28	08** - 10**		Standard ink shades	1 litre			
13	28	12** - 22**		Standard ink shades	1 litre			
13	28	50		Clear colour	1 litre			
13	28	51		Silver	1 litre			
13	28	52		Gold	1 litre			
13	28	80		Process yellow Europe shade	1 litre			
13	28	81		Process red Europe shade	1 litre			
13	28	82		Process blue Europe shade	1 litre			

Other ink shades on request

Parts no.				Thinner	Container	kg		
12	01	01		VD	1 litre	approx. 1 kg		
12	01	04		VD 3	1 litre	approx. 1 kg		
Parts no.				Hardener	Container	kg		
12	23	08		BH-N	0,5 litre	approx. 0,5 kg		
12	03	08		BH-N	1 litre	approx. 1 kg		
Parts no.				Cleaning agent	Container	kg		
12	04	01		RM	1 litre	approx. 1 kg		
12	94	01		RM	30 litre	approx. 30 kg		
Parts no.				Tampon cleaner	Container	kg		
12	04	04		Tampon cleaner	1 litre	approx. 1 kg		
12	04	05		Tampon cleaner	5 litre	approx. 5 kg		

GU-N

Contact us:

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under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.

Application data sheet

HS-NT

1- and 2-component ink, gloss ink

HS

Exclusive ink

Applications:	Good for fast printing cycles - "hermetic" systems. A popular choice in the medical industry, for technical products (e.g. automotive industry), toy industry, textile industry (underwear).
Materials to be printed:	ABS, acrylic glass, thermosetting plastics, rigid PVC, HDPE and LDPE (pretreated), wood, Makrolon, metal, non-ferrous metal, Novodur (SAN), lacquered and powder-coated surfaces, paper, PETP, PET, polyacetate (thermal aftertreated), polyamide, polyethylene (pretreated), polycarbonate, polyester, polymethacrylate, polypropylene (pretreated), polystyrene, polyurethane, powder lacquers, SAN, textiles.
Characteristics:	Block resistant, permanently elastic, good coverage, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, stackable, flow (good).
Resistance:	Against: Diluted alkalis, hand perspiration, light, organic solvents, surfactants, oils and fats, water (limited), weather. As 2-component ink against: Alcohol, cleaning agents containing alcohol, chemicals, diluted acids.
Pretreatment:	All polyolefines
Thinner / retarder / hardener / additive:	VDS 1015 thinner quick-drying VDL 380 thinner slow-drying (particular benefit with ink shade "02") VDL 1015 thinner slow-drying LMN-3 hardener LMN 1 hardener (UV resistance)
Drying:	Physical drying, chemical cross-linking. With infrared drying approx. 1-2 sec., air drying (20°C) approx. 3 min., oven drying (70-80°C) approx. 1-2 min.
Curing:	1-component ink: 1 day, at room temperature (20-25° C). 2-component ink: 3 days, at room temperature (20-25° C).
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	5-10 parts HS ink : 1 part LMN-3 or LMN 1 hardener. Ink ready for printing – add 10-20% VDS 1015 or VDL 1015 thinner. Pot life of the mixed ink at 20°C, depending on proportion of hardener: 5 : 1 approx. 12 Std., 10 : 1 approx. 24 Std.
Typographical information:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, HS inks can also be used as 2-component printing inks. When processing, cans containing hardener must be tightly sealed immediately after removal.
Ability to overprint:	1-component ink yes, 2-component ink within 24 hours.
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

HS-NT

FAX +49 7150 928-433

Our range					Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit Ink shade
13	26	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l	
13	26	50	Clear colour	1 litre		
13	26	51	Silver	1 litre		
13	26	52	Gold	1 litre		
13	26	53	Gold brilliant	1 litre		
13	26	80	Process yellow Europe shade	1 litre		
13	26	81	Process magenta Europe shade	1 litre		
13	26	82	Process cyan Europe shade	1 litre		
Other ink shades on request						
13	26	83	Transparent paste	1 litre		
Parts no.			Thinner	Container	kg	
12	01	05	VDL 380	1 litre	approx. 1 kg	
12	01	07	VDL 1015	1 litre	approx. 1 kg	
12	91	07	VDL 1015	5 litres	approx. 5 kg	
12	01	08	VDS 1015	1 litre	approx. 1 kg	
12	01	10	VDS 1015	5 litres	approx. 5 kg	
Parts no.			Hardener	Container	kg	
12	03	10	LMN-3	0.2 litre	approx. 0.2 kg	
12	23	10	LMN-3	1 litre	approx. 1 kg	
12	03	09	LMN 1	0.2 litre	approx. 0.2 kg	
12	53	02	LMN 1	0.5 litre	approx. 0.5 kg	
12	03	02	LMN 1	1 litre	approx. 1 kg	
Parts no.			Cleaning agent	Container	kg	
12	04	01	RM	1 litre	approx. 1 kg	
12	94	01	RM	30 litres	approx. 30 kg	
Parts no.			Tampon cleaner	Container	kg	
12	04	04	Tampon cleaner	1 litre	approx. 1 kg	
12	04	05	Tampon cleaner	5 litres	approx. 5 kg	

HS

Exclusive ink

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.





K-NT

Application data sheet

1- and 2-component ink, gloss ink (free of cyclohexanone and aromatic compounds)

K

Applications:	Packaging in general (external), toy industry For rapid-running tampon printing machines up to 4,000 cycles/hour. "hermetic" + "open" tampon printing, rotary tampon printing.
Materials to be printed:	ABS, acrylic glass, rigid PVC, wood, Makrolon, lacquered surfaces, paper, PET, polyamide, polyethylene (pretreated), polycarbonate, polypropylene (pretreated), polystyrene, SAN, soft PVC, polyhydroxyalkanoate (PHA).
Characteristics:	Block resistant, permanently elastic, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, stackable, cutting/punching resistant, can be deep drawn, quick drying, flow (good), mechanical resistance.
Resistance:	Against: Alcohol, cleaning agents containing alcohol, chemicals, hand perspiration, organic solvents, oils and fats, diluted alkalis, diluted acids. Limited: Light, water, weather.
Pretreatment:	All polyolefines
Thinner / retarder / hardener / additive:	VDL-K thinner slow-drying VDS-K thinner quick-drying VZ-K retarder LMN-3 hardener
Drying:	At room temperature (21° C) 30-35 sec. (hand and touch-dry). Physical drying, chemical cross-linking.
Curing:	1-component ink: 1 day, at room temperature (20-25° C). 2-component ink: 3 days, at room temperature (20-25° C). Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	10 parts K : 1 part LMN-3 hardener Ink ready for printing – add 10-20% VDL-K or VDS-K thinner Pot life of the mixed ink at 20° C approx. 12-14 hours.
Typographical information:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, K inks can also be used as 2-component printing inks. When processing, cans containing LMN-3 hardener must be tightly sealed immediately after removal.
Ability to overprint:	1-component yes, 2-component ink within 24 hours.
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

K-NT

FAX +49 7150 928-433



Our range						Your requirements		
Parts no.				Standard ink shade	Container	Contents	Unit	Ink shade
	13	27	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
	13	27	50	Clear colour	1 litre			
	13	27	51	Silver	1 litre			
	13	27	52	Gold	1 litre			
	13	27	80	Process yellow Europe shade	1 litre			
	13	27	81	Process magenta Europe shade	1 litre			
	13	27	82	Process cyan Europe shade	1 litre			
TUBE	13	27	01** - 23**	Standard ink shades	0,2 litre			
Other ink shades on request								
Parts no.				Thinner	Container	kg		
	12	01	11	VDL-K	1 litre	approx. 1 kg		
	12	01	12	VDS-K	1 litre	approx. 1 kg		
Parts no.				Retarder	Container	kg		
	12	02	08	VZ-K	1 litre	approx. 1 kg		
Parts no.				Hardener	Container	kg		
	12	03	10	LMN-3	0,2 litre	approx. 0,2 kg		
	12	23	10	LMN-3	1 litre	approx. 1 kg		
Parts no.				Cleaning agent	Container	kg		
	12	04	01	RM	1 litre	approx. 1 kg		
	12	94	01	RM	30 litres	approx. 30 kg		
Parts no.				Tampon cleaner	Container	kg		
	12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
	12	04	05	Tampon cleaner	5 litres	approx. 5 kg		



Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

L-NT

2-component ink, gloss ink

L
Exclusive ink

Applications:	Technical products with very high chemical load requirement (e.g. automotive industry).
Materials to be printed:	ABS, thermosetting plastics, metal, lacquered surfaces, polyamide, polyethylene (pretreated), polyester, polypropylene (pretreated).
Characteristics:	Impact resistant, block resistant, slow drying, suitable for food wrappings (exterior), air drying, suitable for screen printing, abrasion resistant, flow (good), mechanical resistance.
Resistance:	Against: Diluted alkalis, alcohol, chemicals, hand perspiration, light, organic solvents, oils and fats, diluted acids, water, weather. Not resistant against fillers containing phenols.
Pretreatment:	Polyolefines
Thinner / retarder / hardener / additive:	VDL 380 thinner slow-drying VDS 380 thinner quick-drying VZ 380 retarder LMN 1 hardener (UV resistance)
Drying:	Chemical-reactive curing. Thermal shock 20-30 sec. Touch-dry approx. 2-3 min. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	At room temperature (20-25° C) approx. 3-4 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	2 parts L ink : 1 part LMN 1 hardener. Ink ready for printing – add 10-20% VDS 380 or VDL 380 thinner. Retarder – only use VZ 380 retarder. Pot life of the mixed ink at 20° C approx. 8 hours, after this you may have to deal with reduced adhesion and resistance even if the ink still appears fluid and ready for use.
Typographical information:	When processing, cans containing LMN 1 hardener must be tightly sealed immediately after removal.
Ability to overprint:	Reactively curing inks are almost free of solvents after curing. L inks can only be over-printed within the curing time of approx. 24 hours. The best multicolour prints with super-imposed ink surfaces can be achieved when the printing units are connected in line with intermediate drying stations.
Note:	The high mechanical and chemical resistance is only achieved after complete curing of the ink.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

L-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	11	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	11	50	Clear colour	1 litre			
10	11	51	Silver	1 litre			
10	11	52	Gold	1 litre			
10	11	53	Clear colour matt, UV-resistant	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	05	VDL 380	1 litre	approx. 1 kg		
12	01	06	VDS 380	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	06	VZ 380	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	03	09	LMN 1	0.2 litre	approx. 0.2 kg		
12	53	02	LMN 1	0.5 litre	approx. 0.5 kg		
12	03	02	LMN 1	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Exclusive ink

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

LC-NT

1- and 2-component ink, gloss ink, preset

LC

Exclusive ink

Applications:	Low-cost tampon printing ink type, can be universally used.
Materials to be printed:	ABS, acrylic glass, thermosetting plastic, rigid PVC, wood, Makrolon, metal, non-ferrous metal, Noryl, Novadur (SAN), lacquered and powder coated surfaces, paper, PETP, PET, polyacetate (heat finishing treatment), polyamide, polyethylene (pretreated), polycarbonate, polyester, polymetacrylate, polypropylene (pretreated), polystyrene, polyurethane, powder coatings, SAN, textiles.
Characteristics:	Block resistant, permanently elastic, good coverage, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, stackable, flow (good).
Resistance:	Limited: light, water, diluted acids. 2-component ink: diluted alkalis, alcohol, numerous chemicals, hand perspiration, oils and fats.
Pretreatment:	-
Thinner / retarder / hardener / additive:	Thinner VDS-LC quick-drying Thinner VDL-LC slow-drying Hardener LMN
Drying:	Chemical-reactive curing. Air drying (20° C) approx. 5 min. Oven drying at 40-50° C approx. 1-2 min., thermal shock drying approx. 2-3 sec., flame drying possible.
Curing:	1-component ink at room temperature (20° C) approx. 1 day. 2-component ink at room temperature (20° C) approx. 3 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	10 parts ink LC : 1 part hardener LMN Ink ready for printing. Pot life of the ink mixed with hardener approx. 24 hours.
Typographical information:	We recommend special products tests in accordance with customer regulations. When processing, cans containing LMN hardener must be tightly sealed immediately after removal.
Ability to overprint:	1-component ink yes, 2-component within 24 hours.
Note:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, LC inks can also be used as 2-component printing inks.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

LC-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
13	15	01** - 23**	Standard ink shade	1 litre	Density 1.2 – 2.0 kg/l		
13	15	50	Clear colour	1 litre			
13	15	51	Silver	1 litre			
13	15	52	Gold	1 litre			
13	15	80	Process yellow Europe shade	1 litre			
13	15	81	Process red Europe shade	1 litre			
13	15	82	Process blue Europe shade	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	22	VDS-LC	1 litre	approx. 1 kg		
12	01	23	VDL-LC	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	23	01	LMN	0,2 Liter	approx. 0,2 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litre	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litre	approx. 5 kg		

LC

Exclusive ink

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

LOGO_{-NT}

2-component ink, gloss ink



Applications:

The ink type "LOGO", especially suitable for the shock-resistant printing on lacquered golf balls.

Materials to be printed:

Epoxy resins, ABS, acrylic glass, thermoplastics TPE

Characteristics:

Impact resistant, permanently elastic, gloss ink, good coverage, air drying, oven drying, abrasion resistant, suitable for half-tone printing, slow drying, flow (good), mechanical resistance.

Resistance:

Against: Chemicals, hand perspiration, light, diluted alkalis limited, water, weather.

Pretreatment:

-

**Thinner / retarder /
hardener / additive:**

VD thinner slow-drying
 VD 3 thinner quick-drying
 Retarder VZ
 Hardener BH-N

Drying:

After the hardener BH-N is added, chemical-physical drying.
 Drying time at room temperature (20-25° C) is approx. 15 min.
 With thermal influence and air circulation approx. 30 sec.

Curing:

At room temperature approx. 5-6 days.

Storing:

At 21°C a storage stability of at least 12 months in unopened original container guaranteed.

Printing consistency:

4 parts ink "LOGO" : 1 part hardener BH-N
 Ink ready for printing = add 15-30% thinner VD or VD 3
 Pot life of the mixed ink approx. 8 hours.

**Typographical
information:**

Ink type "LOGO" should be processed only with hardener BH-N, otherwise shock-resistance cannot be guaranteed.

Ability to overprint:

-

Note:

Above mentioned characteristics are only achieved after the ink has fully hardened.

Risk information:

■ In accordance with Directive (EC) 1907/2006 the "safety data sheet" contains the designation based on the European Preparation Directive (1999/45/EC) and references regarding safety precautions for processing, storing and disposal. The information mentioned in the safety data sheets refers to the use according to instructions in this data sheet.
 The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.

Cleaning:

Our RM cleaning agent is suitable for cleaning the tools and clichés.
 Use tampon cleaner to clean the tampons.

LOGO



A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

LOGO_{-NT}

FAX +49 7150 928-433

Our range					Your requirements		
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	00	01** - 23**	Standard ink shades	1 litre	Density 1,1 – 1,8 kg/l		
10	00	51	Silver	1 litre			
10	00	52	Gold	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	01	VZ	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	23	08	BH-N	0,5 litre	approx. 0,5 kg		
12	03	08	BH-N	1 litre	ca. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litre	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litre	approx. 5 kg		

LOGO



Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

M-NT

2-component ink, gloss ink

Applications:	Technical products, good adhesion on metal.
Materials to be printed:	ABS, acrylic glass, aluminium, aluminium anodised, cellulose acetate, thermosetting plastics, glass, rigid PVC, HDPE and LDPE (pretreated), wood, metal, non-ferrous metal, Noryl, surfaces (lacquered, chrome/gold/nickel/silver/rhodium-plated), PETP, PET, polyamide, polyethylene (pretreated), polycarbonate, polyester, polymethylmeth-acrylate, polypropylene (pretreated), polystyrene, polyurethane, powder coatings, SAN, textiles.
Characteristics:	Block resistant, permanently elastic, good coverage, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, flow (good), mechanical resistance.
Resistance:	Against: Diluted alkalis, alcohol, cleaning agents containing alcohol, chemicals, hand perspiration, organic solvents, oils and fats, diluted acids, water. Limited: Light, weather. Not resistant against products containing phenols.
Pretreatment:	Polypropylene, polyethylene, polyolefines VDS 1015 thinner quick-drying VDL 1015 thinner slow-drying VDL 380 thinner particularly for ink shade 02 VZ 380 retarder
Thinner / retarder / hardener / additive:	LMN-3 hardener LMN 1 hardener (UV resistance) VL levelling agent
Drying:	Chemical-reactive curing. Air drying (20° C) approx. 2–3 min., thermal shock drying approx. 30 sec. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	At room temperature (20-25° C) approx. 3-4 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	5 parts M ink : 1 part LMN 1, LMN-3 hardener. Ink ready for printing – add 10-20% VDS 1015, VDL 1015, VDL 380 thinner. Retarder – only use VZ 380 retarder. Pot life of the mixed ink approx. 12-14 hours. (LMN 1, LMN-3)
Typographical information:	If there is disruption to the flow, use VL levelling agent. When processing, cans containing hardener must be tightly sealed immediately after removal.
Ability to overprint:	Yes - within 24 hours.
Note:	The high mechanical and chemical resistance is only achieved after complete curing of the ink.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

M
Exclusive ink



For your request

M-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	12	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	12	51	Silver	1 litre			
10	12	52	Gold	1 litre			
10	12	55	Black matt	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	07	VDL 1015	1 litre	approx. 1 kg		
12	91	07	VDL 1015	5 litres	approx. 5 kg		
12	01	05	VDL 380	1 litre	approx. 1 kg		
12	01	08	VDS 1015	1 litre	approx. 1 kg		
12	01	10	VDS 1015	5 litres	approx. 5 kg		
Parts no.			Retarder	Container	kg		
12	02	06	VZ 380	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	03	10	LMN-3	0.2 litre	approx. 0.2 kg		
12	23	10	LMN-3	1 litre	approx. 1 kg		
12	03	09	LMN 1	0.2 litre	approx. 0.2 kg		
12	53	02	LMN 1	0.5 litre	approx. 0.5 kg		
12	03	02	LMN 1	1 litre	approx. 1 kg		
Parts no.			Levelling agent	Container	kg		
12	05	01	VL	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

M

Exclusive ink

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

N-NT

2-component ink, gloss ink

Applications:	Sporting items, tennis rackets, cosmetic products (e.g. shampoo bottles, cream jars), technical products.
Materials to be printed:	ABS, acrylic glass, aluminium, aluminium anodised, cellulose acetate, thermosetting plastics, glass, rigid PVC, HDPE and LDPE (pretreated), wood, ceramic, Lexan, non-ferrous metal, Noryl, lacquered surfaces, PETP, PET, polyacetate (thermal pretreated), polyamide, polyethylene (pretreated), polycarbonate, polyester, polymethylmethacrylate, polypropylene (pretreated), polystyrene, polyurethane, powder coatings, SAN, textiles.
Characteristics:	Block resistant, permanently elastic, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, slow drying, flow (good), mechanical resistance.
Resistance:	Against: Diluted alkalis, alcohol, cleaning agents containing alcohol, chemicals, hand perspiration, organic solvents, oils and fats, diluted acids, water. Limited: Weather. Not resistant against products containing phenols.
Pretreatment:	Polyolefines
Thinner / retarder / hardener / additive:	VDS 1015 thinner quick-drying VDL 1015 thinner slow-drying VDL 380 thinner (particularly for ink shade 02) VZ 380 retarder LMN-3 hardener, LMN 1 hardener (UV resistance) VL levelling agent
Drying:	Chemical-reactive curing. Air drying (20° C) approx. 2–3 min., thermal shock drying approx. 30 sec., thermal shock is recommended. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	At room temperature (20–25° C) approx. 3–4 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	5 parts N ink : 1 part LMN 1 or LMN-3 hardener. Ink ready for printing – add 10–20% VDS 1015 or VDL 1015 thinner. Retarder – only use VZ 380 retarder. Pot life of the mixed ink approx. 12–14 hours. (LMN 1, LMN-3) If there is disruption to the flow, use VL levelling agent.
Typographical information:	When processing, cans containing hardener must be tightly sealed immediately after removal.
Ability to overprint:	Within 24 hours.
Note:	The high mechanical and chemical resistance is only achieved after complete curing of the ink.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

N
Exclusive ink



For your request

N-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	13	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	13	50	Clear colour	1 litre			
10	13	51	Silver	1 litre			
10	13	52	Gold	1 litre			
10	13	53	Gold brilliant	1 litre			
10	13	80	Process yellow Europe shade	1 litre			
10	13	81	Process magenta Europe shade	1 litre			
10	13	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
10	13	83	Transparent paste	1 litre			
Parts no.			Thinner	Container	kg		
12	01	07	VDL 1015	1 litre	approx. 1 kg		
12	91	07	VDL 1015	5 litres	approx. 5 kg		
12	01	05	VDL 380	1 litre	approx. 1 kg		
12	01	08	VDS 1015	1 litre	approx. 1 kg		
12	01	10	VDS 1015	5 litres	approx. 5 kg		
Parts no.			Retarder	Container	kg		
12	02	06	VZ 380	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	03	10	LMN-3	0.2 litre	approx. 0.2 kg		
12	23	10	LMN-3	1 litre	approx. 1 kg		
12	03	09	LMN 1	0.2 litre	approx. 0.2 kg		
12	53	02	LMN 1	0.5 litre	approx. 0.5 kg		
12	03	02	LMN 1	1 litre	approx. 1 kg		
Parts no.			Levelling agent	Container	kg		
12	05	01	VL	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 20 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

N

Exclusive ink

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

O-NT

1-component ink, gloss ink

Exclusive ink

O

Applications:	Food wrappings (e.g. cheese casings), advertising industry, toy industry.
Materials to be printed:	ABS, acrylic glass, aluminium anodised, cellulose acetate, rigid PVC, wood, leather, Lexan, Makrolon, Noryl, Novodur, lacquered surfaces, paper, polycarbonate, polyester, polymethacrylate, polypropylene (pretreated), polystyrene, powder coatings, SAN, textiles, soft PVC.
Characteristics:	Block resistant, permanently elastic, suitable for food wrappings, air drying, oven drying, suitable for screen printing, abrasion resistant, cutting/punching resistant, quick drying, stackable, can be deep drawn, flow (good), can be bonded, mechanical resistance.
Resistance:	Against: Alcohol, cleaning agents containing alcohol, chemicals (limited), hand perspiration, light, organic solvents (limited), oils and fats, water, weather. Limited: Diluted alkalis, diluted acids.
Pretreatment:	Polyolefines
Thinner / retarder / hardener / additive:	VDL 1015 thinner slow-drying VDS 1015 thinner quick-drying VDL 380 thinner particularly for ink shade O2 VZ 380 retarder PP-O coupling agent
Drying:	Physical drying. With air drying (20°C) approx. 2 hours, wipe-dry and touch-dry in approx. 1-2 min., thermal shock 10-20 sec.
Curing:	Room temperature 24 hours (20° C). Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C +/- approx. 20 min. depending on ink layer thickness).
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	Ink ready for printing – add 10-20% VDL 1015 or VDS 1015 thinner. Retarder – only use VZ 380 retarder.
Typographical information:	When 10% of PP-O coupling agent is added, PP material can be printed without pretreatment with excellent adhesion.
Ability to overprint:	Yes
Note:	Caution: Preliminary tests are mandatory. Not to be used on PE material under any circumstances.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

O-NT

FAX +49 7150 928-433

Our range						Your requirements		
TUBE	Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
	10	14	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg!		
	10	14	50	Clear colour	1 litre			
	10	14	51	Silver	1 litre			
	10	14	52	Gold	1 litre			
	10	14	53	Gold brilliant	1 litre			
	10	14	80	Process yellow Europe shade	1 litre			
	10	14	81	Process magenta Europe shade	1 litre			
	10	14	82	Process cyan Europe shade	1 litre			
	10	14	01** - 23**	Standard ink shades	0,2 litre			
Other ink shades on request								
10	14	83	Transparent paste	1 litre				
10	14	84	White, high coverage	1 litre				
Parts no.			Thinner	Container	kg			
12	01	07	VDL 1015	1 litre	approx. 1 kg			
12	91	07	VDL 1015	5 litres	approx. 5 kg			
12	01	05	VDL 380	1 litre	approx. 1 kg			
12	01	08	VDS 1015	1 litre	approx. 1 kg			
12	01	10	VDS 1015	5 litres	approx. 5 kg			
Parts no.			Retarder	Container	kg			
12	02	06	VZ 380	1 litre	approx. 1 kg			
Parts no.			Coupling agent	Container	kg			
10	14	85	PP-O	0.5 litre	approx. 0.5 kg			
Parts no.			Cleaning agent	Container	kg			
12	04	01	RM	1 litre	approx. 1 kg			
12	94	01	RM	30 litres	approx. 30 kg			
Parts no.			Tampon cleaner	Container	kg			
12	04	04	Tampon cleaner	1 litre	approx. 1 kg			
12	04	05	Tampon cleaner	5 litres	approx. 5 kg			

Exclusive ink

O

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade (ink shade card - page 6)** to the **parts number** and state the complete number in the **order**.



Application data sheet

P-NT

1- and 2-component ink, gloss ink

Applications:	Medical industry, packaging industry.
Materials to be printed:	Rigid PVC, HDPE and LDPE (pretreated), wood, lacquered surfaces, paper, polyacetate (thermal pretreated), polyethylene (pretreated), polycarbonate, polyester, polymethylmethacrylate, polypropylene (pretreated), polystyrene, polyurethane.
Characteristics:	Block resistant, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, quick drying, flow (good), mechanical resistance.
Resistance:	Against: Diluted alkalis, hand perspiration, oils and fats. Limited: Chemicals, diluted acids. 2-component ink against: Water.
Pretreatment:	All polyolefines VD 00 thinner (for corrosion problems)
Thinner / retarder / hardener / additive:	VD thinner slow-drying VD 3 thinner quick-drying VZ retarder BH hardener
Drying:	Physical drying and chemical cross-linking. At room temperature (20-25° C) approx. 2-3 min., with thermal influence / air circulation approx. 30-60 sec. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	1-component ink at room temperature (20-25° C) approx. 24 hours 2-component ink + BH hardener at room temperature (20-25° C) 3-4 days
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	10 parts P ink : 1 part BH hardener. Ink ready for printing – add 10-20% VD or VD 3 thinner. With corrosion problems – add 10-20% VD 00 thinner. Retarder – only use VZ retarder. 2-component ink: Pot life of the mixed ink approx. 10 hours, after this you may have to deal with reduced adhesion and resistance even if the ink still appears fluid and ready for use.
Typographical information:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, P inks can also be used as 2-component printing inks. When processing, cans containing BH/GL hardener must be tightly sealed immediately after removal.
Ability to overprint:	1-component ink always, 2-component ink within 24 hours.
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

P-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
13	09	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
13	09	50	Clear colour	1 litre			
13	09	51	Silver	1 litre			
13	09	52	Gold	1 litre			
13	09	80	Process yellow Europe shade	1 litre			
13	09	81	Process magenta Europe shade	1 litre			
13	09	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
13	09	83	Transparent paste	1 litre			
Parts no.			Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg		
12	91	01	VD	5 litres	approx. 5 kg		
12	01	03	VD 00	1 litre	approx. 1 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	01	VZ	1 litre	approx. 1 kg		
12	02	05	VZ-P	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	02	99	BH	0.2 litre	approx. 0.2 kg		
12	53	01	BH	0.5 litre	approx. 0.5 kg		
12	03	01	BH	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

Q-NT

1- and 2-component ink, gloss ink

Exclusive ink

Q

Applications:	Good for fast printing cycles - "hermetic" systems, for slow printing cycles - "open" systems.
Materials to be printed:	ABS, acrylic glass, thermosetting plastics, rigid PVC, HDPE and LDPE (pretreated), wood, Makrolon, metals, non-ferrous metals, Noryl, paper, PETP, PET, polyacetate (thermal after-treated), polyamide, polycarbonate, polyester, polymethacrylate, polypropylene (pretreated), polystyrene, polyurethane, powder coating, SAN, textiles.
Characteristics:	Block resistant, permanently elastic, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, slow drying, flow (good), mechanical resistance.
Resistance:	Against: Diluted alkalis, chemicals, hand perspiration, organic solvents, oils and fats Limited: Alcohol, cleaning agents containing alcohol.
Pretreatment:	Polyolefines
Thinner / retarder / hardener / additive:	VDL 1015 thinner slow-drying VDL 380 thinner slow-drying, particularly suitable for ink shade 02 VDS 1015 thinner quick-drying LMN-3 hardener
Drying:	1-component ink physical drying, 2-component ink chemical cross-linking. With infrared drying approx. 10-20 sec. Air drying (20° C) approx. 3 min. Oven drying (70–80° C) approx. 1-2 min. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	1-component ink at room temperature (20° C) approx. 1 day. 2-component ink with hardener with room temperature (20° C) approx. 3 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	5–10 parts Q ink : 1 part LMN-3 hardener. Ink ready to print – add 10-20% VDL 1015 or VDS 1015 thinner. Pot life of the mixed ink at 20°C, depending on hardener proportion 5 : 1 approx. 12 hours, 10 : 1 approx. 48 hours. When processing, cans containing hardener must be tightly sealed immediately after removal.
Typographical information:	The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Ability to overprint:	1-component ink always, 2-component ink within 24 hours.
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, Q inks can also be used as 2-component printing inks.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

Q-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
13	16	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
13	16	50	Clear colour	1 litre			
13	16	51	Silver	1 litre			
13	16	52	Gold	1 litre			
13	16	80	Process yellow Europe shade	1 litre			
13	16	81	Process magenta Europe shade	1 litre			
13	16	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
13	16	83	Transparent paste	1 litre			
Parts no.			Thinner	Container	kg		
12	01	07	VDL 1015	1 litre	approx. 1 kg		
12	91	07	VDL 1015	5 litres	approx. 5 kg		
12	01	05	VDL 380	1 litre	approx. 1 kg		
12	01	08	VDS 1015	1 litre	approx. 1 kg		
12	01	10	VDS 1015	5 litres	approx. 5 kg		
Parts no.			Hardener	Container	kg		
12	03	10	LMN-3	0.2 litre	approx. 0.2 kg		
12	23	10	LMN-3	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Exclusive ink

Q

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

R-NT

1- and 2-component ink, gloss ink

Exclusive ink

R

Applications:	Ideal for high-load surfaces, automotive industry, washing machine trims, keyboards (+ UV protective lacquer).
Materials to be printed:	ABS, acrylic glass, rigid PVC, HDPE and LDPE (pretreated), wood, Makrolon, paper, polyamide, polyethylene (pretreated), polycarbonate, polyester, polymethylmethacrylate, polypropylene (pretreated), polystyrene, polyurethane.
Characteristics:	Block resistant, good coverage, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, quick drying, flow (good), mechanical resistance
Resistance:	Against: Chemicals, hand perspiration, organic solvents. Limited: Light, diluted acids. 2-component ink: Alcohol, diluted alkalis, cleaning agents containing alcohol, oils and fats, diluted acids.
Pretreatment:	Polyolefines
Thinner / retarder / hardener / additive:	VDS 1015 thinner quick-drying VDL 1015 thinner slow-drying VDL 380 thinner slow-drying, particularly suitable for ink shade 02 VZ 380 retarder LMN-3 hardener LMN 1 hardener (UV resistance)
Drying:	Chemical-reactive curing. Air drying (20° C) approx. 1-3 min., oven drying at 40-50° C approx. 1-2 min., thermal shock drying approx. 2-3 sec., flame drying possible. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	1-component ink at room temperature (20-25° C) approx. 1 day. 2-component ink with hardener at room temperature (20-25° C) approx. 2 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	10 parts R ink : 1 part LMN-3 or LMN 1 hardener. Ink ready for printing – add 10-20% VDS 1015, VDL 380 or VDL 1015 thinner. Retarder – only use VZ 380 retarder. Pot life of the mixed ink approx. 36 hours.
Typographical information:	When processing, cans containing hardener must be tightly sealed immediately after removal. When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, R inks can also be used as 2-component printing inks.
Ability to overprint:	1-component ink always, 2-component ink within 24 hours.
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

R-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.	Standard ink shade	Container	Contents	Unit	Ink shade		
10 17 01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l				
10 17 49	Bronze binder	1 litre					
10 17 50	Clear colour	1 litre					
10 17 51	Silver	1 litre					
10 17 52	Gold	1 litre					
10 17 53	Gold brilliant	1 litre					
10 17 80	Process yellow Europe shade	1 litre					
10 17 81	Process magenta Europe shade	1 litre					
10 17 82	Process cyan Europe shade	1 litre					
TUBE 10 17 01** - 23**	Standard ink shades	0,2 Litre					
Other ink shades on request							
10 17 83	Transparent paste	1 litre					
Parts no.	Thinner	Container	kg				
12 01 05	VDL 380	1 litre	approx. 1 kg				
12 01 07	VDL 1015	1 litre	approx. 1 kg				
12 91 07	VDL 1015	5 litres	approx. 5 kg				
12 01 08	VDS 1015	1 litre	approx. 1 kg				
12 01 10	VDS 1015	5 litres	approx. 5 kg				
Parts no.	Retarder	Container	kg				
12 02 06	VZ 380	1 litre	approx. 1 kg				
Parts no.	Hardener	Container	kg				
12 03 10	LMN-3	0.2 litre	approx. 0.2 kg				
12 23 10	LMN-3	1 litre	approx. 1 kg				
12 03 09	LMN 1	0.2 litre	approx. 0.2 kg				
12 53 02	LMN 1	0.5 litre	approx. 0.5 kg				
12 03 02	LMN 1	1 litre	approx. 1 kg				
Parts no.	Cleaning agent	Container	kg				
12 04 01	RM	1 litre	approx. 1 kg				
12 94 01	RM	30 litres	approx. 30 kg				
Parts no.	Tampon cleaner	Container	kg				
12 04 04	Tampon cleaner	1 litre	approx. 1 kg				
12 04 05	Tampon cleaner	5 litres	approx. 5 kg				

Exclusive ink

R

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

RDF-NT

**1- and 2-component ink, gloss ink,
rotary printing ink**

Exclusive ink

RDF

Applications:	Special rotary tampon printing ink. Bottle closures made of polyethylene and polypropylene (pretreated).
Materials to be printed:	Thermosetting plastics, HDPE and LDPE (pretreated), lacquered and powder-coated surfaces, polyethylene (pretreated), polypropylene (pretreated), soft lacquers (limited), thermoplastics, UV lacquer.
Characteristics:	Impact resistant, block resistant, good coverage, suitable for food wrappings (exterior), air drying, oven drying, abrasion resistant, stackable, quick drying, flow (good), mechanical resistance (limited).
Resistance:	Limited: Light, water, diluted acids. 2-component ink: Diluted alkalis, alcohol, numerous chemicals, hand perspiration, oils and fats.
Pretreatment:	Polyethylene, polypropylene.
Thinner / retarder / hardener / additive:	VDS-RDF thinner quick-drying VDL-RDF thinner slow-drying LMN-3 hardener
Drying:	Chemical-reactive curing Air drying (20° C) approx. 5 min. Oven drying at 40-50° C approx. 1-2 min. Thermal shock drying approx. 2-3 sec. Flame drying possible.
Curing:	1-component ink 1 day. 2-component ink 3 days
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	Ink ready for printing – add 5-15% VDS-RDF or VDL-RDF thinner. Pot life of the ink mixed with hardener approx. 24 hours. 10 parts RDF ink : 1 part LMN-3 hardener.
Typographical information:	We recommend special product tests in accordance with customer regulations. When processing, cans containing hardener must be tightly sealed immediately after removal. It should be taken into account that the screening and the etching depth of the cliché roller will influence the printing result.
Ability to overprint:	1-component ink yes, 2-component ink within 24 hours.
Note:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, RDF inks can also be used as 2-component printing inks. ■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal.
Risk information:	The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

RDF-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
49	02	01**	Standard ink shade black	5 litres	5 kg		
49	02	02**	Standard ink shade white	5 litres	5 kg		
49	01	01** - 23**	Standard ink shades	1 litre	1 kg		
49	01	50	Clear colour	1 litre	1 kg		
49	01	51	Silver	1 litre	1 kg		
49	01	52	Gold	1 litre	1 kg		
49	01	80	Process yellow Europe shade	1 litre	1 kg		
49	01	81	Process magenta Europe shade	1 litre	1 kg		
49	01	82	Process cyan Europe shade	1 litre	1 kg		
Other ink shades on request							
Parts no.			Thinner	Container	kg		
49	91	07	VDL-RDF	1 litre	approx. 1 kg		
49	91	09	VDL-RDF	5 litres	approx. 5 kg		
49	91	11	VDL-RDF	25 litres	approx. 25 kg		
49	91	08	VDS-RDF	1 litre	approx. 1 kg		
49	91	10	VDS-RDF	5 litres	approx. 5 kg		
49	91	12	VDS-RDF	25 litres	approx. 25 kg		
Parts no.			Hardener	Container	kg		
12	03	10	LMN-3	0.2 litre	approx. 0.2 kg		
12	23	10	LMN-3	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Exclusive ink

RDF

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade (ink shade card - page 6)** to the **parts number** and state the complete number in the **order**.



Application data sheet

S-NT

2-component ink, gloss ink

Applications:	Automotive industry (engine compartment trims), labels.
Materials to be printed:	ABS, metal, aluminium.
Characteristics:	Permanently elastic, good coverage, suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, abrasion resistant, quick drying, flow (good), mechanical resistance.
Resistance:	Against: Alcohol, cleaning agents containing alcohol, diluted alkalis, chemicals, hand perspiration, light, diluted acids, water, weather.
Pretreatment:	Print surfaces must be free from fats or other residue.
Thinner / retarder / hardener / additive:	VDS 1015 thinner quick-drying VDL 1015 thinner slow-drying VZ 380 retarder LMN 1 hardener (UV resistance)
Drying:	Chemical-reactive curing. Air drying (20° C) approx. 2-3 minutes. Thermal shock drying approx. 30 sec. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	72 hours at room temperature 20-25° C.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	10 parts S ink : 1 part LMN 1 hardener. Ink ready to print – add 10-20% VDL 1015 or VDS 1015 thinner. Retarder – only use VZ 380 retarder. Pot life of the mixed ink at 20° C approx. 12 hours.
Typographical information:	-
Ability to overprint:	Reactively curing inks are almost free of solvents after curing. S inks can only be overprinted within approx. 6 hours.
Note:	The high mechanical and chemical resistance is only achieved after the ink has fully hardened.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

Exclusive ink

S

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

TAMPOPRINT®

For your request

S-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	18	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	18	50	Clear colour	1 litre			
10	18	51	Silver	1 litre			
10	18	52	Gold	1 litre			
10	18	80	Process yellow Europe shade	1 litre			
10	18	81	Process magenta Europe shade	1 litre			
10	18	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	07	VDL 1015	1 litre	approx. 1 kg		
12	91	07	VDL 1015	5 litres	approx. 5 kg		
12	01	08	VDS 1015	1 litre	approx. 1 kg		
12	01	10	VDS 1015	5 litres	approx. 5 kg		
Parts no.			Retarder	Container	kg		
12	02	06	VZ 380	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	03	09	LMN 1	0.2 litre	approx. 0.2 kg		
12	53	02	LMN 1	0.5 litre	approx. 0.5 kg		
12	03	02	LMN 1	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

Exclusive ink

S

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet



1-component ink, stoving ink, gloss ink

Applications:	Special tampon printing ink type for surface stoving of surfaces which are exposed to high temperatures, e.g.: light bulbs.
Materials to be printed:	Glass, ceramic, metal, heat-resistant moulding material.
Characteristics:	Good coverage, oven drying, chemical and mechanical resistance
Resistance:	Against: Chemicals, oils and fats, diluted acids, weather. Limited: Diluted alkalis.
Pretreatment:	-
Thinner / retarder / hardener / additive:	VDL 1015 thinner slow-drying VZ 380 retarder
Drying:	Physical drying followed by oven drying with chemical cross-linking. Alternative drying data: 40 min. at 180° C or 20 min. at 200° C. The pigments used have only limited, short-term heat resistance at 400° C. Overheating – also locally – as well as appreciably exceeding the curing times may lead to fluctuations in shades.
Curing:	Oven drying: 40 minutes at 180° C or 20 minutes at 200° C.
Storing:	Approx. 1/2 year in sealed original container, stored in cool and dry location.
Printing consistency:	Ink ready for printing – add 10-20% VDL 1015 thinner. Retarder – only use VZ 380 retarder.
Typographical information:	Special product tests required in individual cases. It should be taken into account that the screening and the etching depth of the tampon printing cliché, as well as the form and hardness (Shore) of the tampon and the printing speed of the tampon printing machine will all influence the printing result.
Ability to overprint:	Yes, before curing.
Note:	TH ink types only available on order. No stock.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.



A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

TH-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	31	93	01 black	1 litre	Density 1.2 – 2.0 kg/l		
10	33	84	02 white	1 litre			
10	37	83	04 yellow medium	1 litre			
10	37	08	05 yellow dark	1 litre			
10	32	45	06 orange	1 litre			
10	50	13	09 signal red	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	07	VDL 1015	1 litre	approx. 1 kg		
12	91	07	VDL 1015	5 litres	approx. 5 kg		
Parts no.			Retarder	Container	kg		
12	02	06	VZ 380	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

TAMPOPRINT®

TH

Contact us:

Sales Tampon printing ink.

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under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

**** To determine the parts number, please add the two-digit number of the respective standard ink shade (ink shade card - page 6) to the parts number and state the complete number in the order.**



Application data sheet

TP-CD-NT

1- and 2-component ink, gloss ink

Applications:	Often used for lacquered and powder-coated surfaces, e.g.: spring legs.
Materials to be printed:	CDs, metal, non-ferrous metal, lacquered and powder-coated surfaces, polyethylene (pretreated), polypropylene (pretreated), soft lacquers (limited), thermoplastics, UV lacquer.
Characteristics:	Air drying, oven drying, quick drying.
Resistance:	Against: Hand perspiration, light, oils and fats, water, weather. Limited: Chemicals, organic solvents.
Pretreatment:	2-component ink: Alcohol, cleaning agents containing alcohol.
Thinner / retarder / hardener / additive:	-
Drying:	CDV thinner slow-drying VD 3 thinner quick-drying TPD retarder BH hardener Touch-dry: 1-2 min. Shock-dry: (infrared) 5-10 sec. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C +/- 20 min. depending on ink layer thickness).
Curing:	2-component ink – complete curing without heat 3-5 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	10 parts TP-CD ink : 1 part BH hardener. Ink ready to print – add 10-30% CDV thinner. Retarder – only use TP D retarder. Pot life of the mixed ink approx. 8 hours
Typographical information:	It should be taken into account that the screening and the etching depth of the tampon printing cliché, as well as the form and hardness (Shore) of the tampon and the printing speed of the tampon printing machine will influence the printing result.
Ability to overprint:	Yes
Note:	When exposed to greater mechanical and chemical loads or when a greater level of adhesion is required, TP-CD inks can also be used as 2-component printing inks.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

TP-CD

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

TP-CD-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
13	25	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
13	25	50	Clear colour	1 litre			
13	25	51	Silver	1 litre			
13	25	52	Gold	1 litre			
13	25	80	Process yellow Europe shade	1 litre			
13	25	81	Process magenta Europe shade	1 litre			
13	25	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	09	CDV	1 litre	approx. 1 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	07	TP D	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	02	99	BH	0.2 litre	approx. 0.2 kg		
12	53	01	BH	0.5 litre	approx. 0.5 kg		
12	03	01	BH	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		

TAMPOPRINT®

TP-CD

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Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

TP-PP-NT

1-component ink, gloss ink

Applications:	Special tampon printing ink type for printing on PP materials without pretreatment.
Materials to be printed:	Polypropylene (PP), not pretreated.
Characteristics:	Air drying, oven drying, physical drying, high coverage, glossy, good mechanical resistance, suitable for food wrappings (exterior).
Resistance:	Against: Light, weather, chemicals. Limited: Fats and oils, cleaning agents containing alcohol, water.
Pretreatment:	None
Thinner / retarder / hardener / additive:	Thinner VD-PP/S Thinner VD-PP/L Thinner VZ-PP
Drying:	At room temperature (21° C) approx. 2-3 min. (fast to handling). To accelerate the ink drying on the substrate the use of a hot-air dryer or an infrared lamp is useful.
Curing:	Note: After the heat drying a cooling zone must be available since otherwise the printed parts could stick together.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed. Higher storage temperatures may reduce the storage stability.
Printing consistency:	Ink ready for printing – add 10–20 % Thinner VD-PP/S or VD-PP/L. Retarder – only use Retarder VZ-PP.
Typographical information:	As the printing materials can strongly differ with regard to their chemical constitution and the manufacturing method, it is always necessary to carry out a suitability test. In particular antistatic additives as well as separating agents and lubricants can have a negative effect on the ink adhesion.
Ability to overprint:	Yes
Note:	Ink type TP-PP only available on order. No stock.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

TP-PP

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

TP-PP_{-NT}

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	15	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	57	36	Clear colour	1 litre			
Other ink shades on request							
Parts no.			Thinner	Container	kg		
12	01	32	VD-PP/L	1 litre	approx. 1 kg		
12	01	33	VD-PP/S	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	10	VZ-PP	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litre	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litre	approx. 5 kg		

TP-PP

Contact us:

Sales Tampon printing ink.

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under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.





U-HF-NT

Application data sheet

1- and 2-component ink halogen-free (without chlorine)

Exclusive ink

U-HF

Applications::	The inks of the series U-HF are suitable for the printing of a non-food-contact side of the packaging provided that the inks are applied properly and professionally. Advertising industry, toys industry, medical technology, closure caps; rotary tampon printing.
Materials to be printed:	Pretreated polypropylene (PP) and polyethylene (PE), ABS, acrylic glass, lacquered surfaces, polycarbonate, polystyrene, polyurethane and polyhydroxyalkanoate (PHA). (As the materials to be printed can significantly differ with regard to their chemical structure and the manufacturing method, a suitability test has to be carried out at all times).
Characteristics:	High-gloss finish, physically drying, quick drying; lightfast, weather-proof and high coverage. Free from chlorine compounds, cyclohexanone and solvents containing arenes.
Resistance:	Good mechanical and chemical resistances. Limited: light, water and diluted acids. As 2-component ink: alcohol, numerous chemicals, hand perspiration, oils and fats. The inks of the series U-HF reach their high resistance and adhesion level only after the chemical reaction has been completed which will be completed after 3-4 days at room temperature.
Pretreatment:	The pretreatment which is definitely required to guarantee ink adhesion of polyethylene (PE) or polypropylene (PP) takes place using ignition, Corona discharge or plasma process.
Thinner / retarder / hardener / additive:	Thinner VDL-K slow-drying, thinner VDS-K quick-drying, Hardener LMN-3
Drying:	The drying properties of the ink series U-HF during the printing process are essential for the printing result. Physically drying and chemical reactive. At processing temperatures of over 25° C and low printing speed the ink could dry in the cliché. Then some parts of the print image will not be transferred. At room temperature (21° C) the inks of the series U-HF are touch-dry within 5 minutes, at a temperature of 50° C within 2 minutes, after thermal shock drying in 2-3 seconds. To accelerate the ink drying on the substrate the use of a hot-air dryer or infrared lamp is useful.
Curing:	1-component ink = 1 day, 2-component ink = 3-4 days
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed.
Printing consistency:	Pot life of the ink U-HF mixed with hardener LMN-3 is approx. 8 hours. 10 parts ink U-HF : 1 part hardener LMN-3 Ink ready for printing 10-30 % thinner VDL-K / VDS-K
Typographical information:	-
Ability to overprint:	1- and 2-component ink within 24 hours. It is not possible to overprint fully cured printing inks.
Note:	All components which will be in contact with tampon printing inks (such as e.g. ink/ doctoring cup, cliché, tampons, ink spatula, stirrer etc.) may be used only with the ink series U-HF (halogen residues from other ink series can contaminate the series U-HF!).
Risk information:	<p>■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink series U-HF is halogen-free and the pigmentation contains no heavy metals.</p> <p>The raw materials used for the U-HF series comply with the limit values of the European Standard EN 71 (safety of toys), part 3 (migration of particular elements) published in December 1994.</p>
Cleaning:	Cleaning exclusively with thinner VDL-K! All components and tools must be used only for U-HF ink to avoid contamination with halogen residues.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

For your request

U-HF_{-NT}

FAX +49 7150 928-433



Our range					Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit
10	10	01** - 23**	Standard ink shades	1 litre	1 kg	
Parts no.			Thinner	Container	kg	
12	01	11	VDL-K	1 litre	approx. 1 kg	
12	01	12	VDS-K	1 litre	approx. 1 kg	
Parts no.			Hardener	Container	kg	
12	03	10	LMN-3	0,2 litre	approx. 0,2 kg	
12	23	10	LMN-3	1 litre	approx. 1 kg	
Parts no.			Cleaning agent	Container	kg	
12	01	11	VDL-K	1 litre	approx. 1 kg	
Parts no.			Tampon cleaner	Container	kg	
12	04	04	Tampon cleaner	1 litre	approx. 1 kg	
12	04	05	Tampon cleaner	5 litre	approx. 5 kg	

Exclusive ink

U-HF

Contact us:

Sales Tampon printing ink.

E-Mail: colour@tampoprint.de, Fax: +49 7150 928-433

under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet

UV-RDF-NT

**UV ink for rotary tampon printing machines,
gloss ink**

Applications:	UV-RDF is very reactive. Suitable for rapid-running tampon printing systems. Rotary tampon printing, but also suitable for "hermetic" and "open" tampon printing systems.
Materials to be printed:	ABS, rigid PVC, lacquered surface, PETP, PET, polyethylene (pretreated), polypropylene (pretreated), polystyrene, soft PVC.
Characteristics:	Impact resistant, permanently elastic, good coverage, suitable for food wrappings (exterior), suitable for screen printing, abrasion resistant, stackable, flow (good), mechanical resistance.
Resistance:	Against: Alcohol, cleaning agents containing alcohol, chemicals, hand perspiration, light, oils and fats, diluted alkalis, diluted acids, water, weather.
Pretreatment:	Definitely required to guarantee ink adhesion. Ignition, CORONA discharge or plasma process for: Pretreated polypropylene (PP), polyethylene (PE). Surface tension should be at least 52 mN/m with pretreated polypropylene (PP) and 42 mN/m with polyethylene (PE).
Thinner / retarder / hardener / additive:	UV-RDF print additive (thinner) max. 10%. Antistatic additives and lubricants can have a negative effect on the ink adhesion.
Drying:	a) All ink shades can be cured with a medium-pressure mercury vapour lamp of at least 160 W/cm. b) A post-curing phase of approx. 12 hours should be observed. The colour film will then have acquired its end properties.
Curing:	Note: Too low a heat intensity, too high a machine speed, too great an ink thickness will have a negative effect on the curing and adhesion properties.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed. Higher temperatures may reduce the storage stability.
Printing consistency:	The UV-RDF is ready for printing. If necessary add max. 10% UV-RDF print additive. Should printing disruption occur (corona build-up) = add: 5 to max. 10% UV-RDF print additive.
Typographical information:	It should be taken into account that the screening and the etching depth of the tampon printing cliché, as well as the form and hardness (Shore) of the tampon and the printing speed of the tampon printing machine and the heat intensity will all influence the printing result.
Ability to overprint:	Possible within the curing period. Intermediate drying is recommended.
Note:	As materials can differ greatly regarding their chemical structure and manufacturing method, a sampling (test print) should always be carried out.
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

Eine rechtlich verbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen konkreten Einsatzzweck kann aus unseren Angaben nicht abgeleitet werden.

UV-RDF

binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400

Exclusive ink

For your request

UV-RDF-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
49	03	01** - 23**	Standard ink shades	1 litre	1 kg		
49	03	50	Bronze binder	1 litre	1 kg		
49	03	51	Silver	1 litre	1 kg		
49	03	52	Gold	1 litre	1 kg		
49	03	53	Clear colour	1 litre	1 kg		
49	03	80	Process yellow Europe shade	1 litre	1 kg		
49	03	81	Process magenta Europe shade	1 litre	1 kg		
49	03	82	Process cyan Europe shade	1 litre	1 kg		
Other ink shades on request							
Parts no.			Additive	Container	kg		
49	03	54	UV-RDF print additive	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		



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under: <http://www.tampoprint.de> (Enquiry form)

Material safety data sheets:

Please address your enquiries to

colourmsds@tampoprint.de

UV-RDF

Exclusive ink

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



Application data sheet



2-component ink, gloss ink

Applications:	Packaging industry, preferably "open" systems.
Materials to be printed:	ABS, thermosetting plastics, rigid PVC, HDPE and LDPE (pretreated), metal, non-ferrous metal, Noryl, polyamide, polyethylene (pretreated), polycarbonate, polyester, polymethylmethacrylate, polypropylene (pretreated), polystyrene, polyurethane.
Characteristics:	Suitable for food wrappings (exterior), air drying, oven drying, suitable for screen printing, quick drying, flow (good), very good mechanical resistance.
Resistance:	Diluted alkalis, chemicals, hand perspiration, organic solvents, oils and fats, diluted acids, water.
Pretreatment:	All polyolefines
Thinner / retarder / hardener / additive:	VD thinner slow-drying VD 3 thinner quick-drying VZ retarder BH hardener
Drying:	After the BH hardener is added, chemical-physical drying. At room temperature (20-25° C) approx. 2 min., with thermal influence / air circulation approx. 20-30 sec., with thermodiffusion a few sec.. Oven drying: Time and temperature dependent on the materials to be printed (guide value: 80° C + / approx. 20 min. depending on ink layer thickness).
Curing:	At room temperature (20° C) approx. 5 days.
Storing:	At 21°C a storage stability of at least 12 months in unopened original container guaranteed. When processing, cans containing BH hardener must be tightly sealed immediately after removal.
Printing consistency:	2-3 parts W ink : 1 part BH hardener. Ink ready for printing – add 10-20% VD or VD 3 thinner. Retarder – only use VZ retarder. Pot life of the mixed ink approx. 6-8 hours, after this you may have to deal with reduced adhesion and resistance even if the ink still appears fluid and ready for use.
Typographical information:	The best multicolour prints with superimposed ink surfaces can be achieved when the printing units are connected in line with intermediate drying stations.
Ability to overprint:	W inks can only be overprinted within approx. 8 hours.
Note:	-
Risk information:	■ The material safety data sheet in accordance with Regulation (EC) No.1907/2006 contains the designation and notes regarding protective measures to be taken with regard to processing, storage and waste disposal. The ink shades contain no heavy metals in their pigmentation and comply with the provisions of EN 71, part 3, safety of toys, migration of particular elements.
Cleaning:	Our RM cleaning agent is suitable for cleaning the tools and clichés. Use tampon cleaner to clean the tampons.

A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

Application technology:

If you have any further print and application-related queries, our application technology team will be happy to help.

E-mail: application@tampoprint.de, Fax: +49 7150 928-400



For your request

W-NT

FAX +49 7150 928-433

Our range						Your requirements	
Parts no.			Standard ink shade	Container	Contents	Unit	Ink shade
10	21	01** - 23**	Standard ink shades	1 litre	Density 1.2 – 2.0 kg/l		
10	21	50	Bronze binder	1 litre			
10	21	80	Process yellow Europe shade	1 litre			
10	21	81	Process magenta Europe shade	1 litre			
10	21	82	Process cyan Europe shade	1 litre			
Other ink shades on request							
10	21	83	Transparent paste	1 litre			
Parts no.			Thinner	Container	kg		
12	01	01	VD	1 litre	approx. 1 kg		
12	91	01	VD	5 litres	approx. 5 kg		
12	01	04	VD 3	1 litre	approx. 1 kg		
Parts no.			Retarder	Container	kg		
12	02	01	VZ	1 litre	approx. 1 kg		
Parts no.			Hardener	Container	kg		
12	02	99	BH	0.2 litre	approx. 0.2 kg		
12	53	01	BH	0.5 litre	approx. 0.5 kg		
12	03	01	BH	1 litre	approx. 1 kg		
Parts no.			Cleaning agent	Container	kg		
12	04	01	RM	1 litre	approx. 1 kg		
12	94	01	RM	30 litres	approx. 30 kg		
Parts no.			Tampon cleaner	Container	kg		
12	04	04	Tampon cleaner	1 litre	approx. 1 kg		
12	04	05	Tampon cleaner	5 litres	approx. 5 kg		



Contact us:

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Material safety data sheets:

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colourmsds@tampoprint.de

** To determine the parts number, please add the **two-digit number** of the respective **standard ink shade** (ink shade card - page 6) to the **parts number** and state the complete number in the **order**.



TECHNICAL TERMS

PRODUCT RANGE

Solvent tampon printing inks

Available as 1- or 2-component ink.

UV tampon printing inks

These are 1-component inks.

Solvent inks	UV inks
Additives	Additives
Pigments / Extenders	Pigments / Extenders
Solvents	Monomers
Hardeners	Photoinitiators
Resins	Prepolymers

NT

All ink types are manufactured from scratch as NT (non-toxic).

1-Component ink

The 1-component inks dry physically through evaporation of solvents. This process can be supported with hot air.

2-Component ink

After the ink has been transferred and the physical drying has taken place, a chemical cross linking reaction takes place between the binder and hardener.

The maximum processing time (pot life) is limited by the addition of hardener (the pot life varies depending on the ink type and hardener). After this you may have to deal with reduced adhesion and resistance even if the ink still appears fluid and ready for use.

Consistency

The TAMPOPRINT® ink types are not ready for printing but must be mixed to the correct consistency, depending on the print image, using the thinners (solvent) indicated on the relevant data sheets for the individual ink types.

Print additives

Additives are added to UV tampon printing inks in small quantities to achieve or improve certain characteristics. In other words, additives should have a positive influence on

- the manufacturing process
- storage
- processing
- optical characteristic

Thinner (solvent)

The addition of a "thinner" does not just influence the viscosity, flow capacity and ink dispensing behaviour of the tampon printing ink from the tampon to the workpiece, but it also has a very particular influence on the drying speed. In addition to universal thinners, "quick" and "slow" thinners are also available.

Retarder (solvent)

is a very slow thinner used to slow down the drying time without having a negative effect on the ink viscosity. It may also be necessary to add retarder when printing large print images or when using slow tampon printing machines.

Coupling agent (primer)

In order to achieve ink adhesion on polyolefines such as PE (polyethylene) and PP (polypropylene), the workpiece surface must be pretreated prior to printing commencing. This can be carried out with corona, gas or plasma pretreatment stations on your tampon printing machine. "PP" or "PPO" coupling agent can be used for PP (polypropylene) instead of one of the above processes.

TECHNICAL TERMS

PRODUCT RANGE

Levelling agent

The levelling agent reduces the surface tension of the tampon printing ink. The additional anti-foaming effect allows large single colour print (images) in particular to appear homogeneous (e.g. with orange-peel skin effects).

In order to avoid adhesion problems when printing "ink on ink", no more than 1% levelling agent should be added.

Hardener

Hardener is added to achieve a better consistency of 2-component inks. This means, the hardener will react with the remaining resin bonding agent of the printing ink and will create a cross linking of the printing ink or the ink film on the workpiece.

Waste disposal

Ink residues must be disposed of in hazardous waste.

Cleaning

The clichés and tools can be cleaned of all ink types using our "RM cleaning agent" or our cliché spray.

Pretreatment methods

- ionisation: For all print materials. Causes the discharge of the surface tension.
- gas flame pretreatment
- plasma pretreatment
- corona pretreatment

Aftertreatment methods

- thermodiffusion shock drying
- flame drying
- hot-air nozzle drying
- infrared drying
- oven drying
- low pressure mercury lamp (UV lamp)

OUR SERVICE

TEST PRINT OFFER & INK SAMPLE



TEST PRINT OFFER

Which ink shade?
Which ink type?
Which print sample surface?
Which cliché type?

Ask us!
We'll be happy to assist you!

When is a test print useful?

- ✓ with coloured printing sample surfaces
- ✓ with unknown printing sample materials
- ✓ with demanding print images

You are welcome to ask for your test print offer incl. ink sample under:

E-Mail: colour@tampoprint.de

Your own test print?

You would like to test your desired ink beforehand?
Then order your ink sample with 250 ml!

Our service

Fast service in the range of standard and special ink types as well as basic ink types in standard and special ink shades becomes more and more important. TAMPOPRINT® can guarantee this fast service in spite of the wide range of ink types and ink shades.

Our offer for test prints

Our all-inclusive price for test prints includes:

- ✓ the perfect ink type for your requirements
- ✓ the perfect ink shade for the surface of your printing sample (for coloured surfaces you will receive our ink shade recommendation in order to achieve good results in single tampon printing)
- ✓ your ink type / shade as ink sample in a 250 ml package
- ✓ production of a tampon printing cliché for the test print in our application-engineering department
- ✓ delivery of your original test printed sample by post
- ✓ if necessary, also identification of the surface material of your printing sample!

Your enquiry for test printing

Before submitting our test print offer we need your requirements regarding

- ✓ desired ink shade of print image
- ✓ preferred ink type
- ✓ surface material of printing sample (specification)
- ✓ Otherwise, we will need your original printing sample!
We will be pleased to submit an offer to have the material specified by our application engineering department.

You will find our online enquiry form (PDF) on our homepage www.tampoprint.de under contact.

Fax: +49 7150 928-433

E-Mail: colour@tampoprint.de

You will receive the prices after receipt of your enquiry.

OUR SERVICE

SPECIAL INK SHADES & MINIMUM ORDER QUANTITIES



The desired ink shade will be manufactured in our colour laboratory based on your colour artworks or specifications.

Based on the ink shade systems:

RAL, PMS, NCS,
HKS K (glossy), HKS N (matt).

Our graduated prices for special ink shades

Container	Small quantity surcharge	B	B/GL	C	E	F	GU	GU-N	HS	K	L	LC	LOGO	M	N	O	P	Q	R	RDF	S	TH	TP-CD	TP-PP	U-HF	UV-RDF	W
1-4 litres	Flat rate								✓	✓					✓	✓		✓	✓						✓		
5-9 litres	Flat rate								✓	✓	✓			✓	✓	✓		✓	✓		✓	✓		✓	✓		
from 10 litres	NO surcharge								✓	✓	✓			✓	✓	✓		✓	✓		✓	✓		✓	✓		
1-15 litres	Flat rate per litre	✓	✓	✓	✓	✓	✓	✓					✓				✓						✓				✓
ab 16 litres	NO surcharge	✓	✓	✓	✓	✓	✓	✓					✓				✓						✓				✓
5-9 kg	Flat rate											✓							✓							✓	
ab 10 kg	NO surcharge											✓							✓							✓	

OUR SERVICE

200-ML INK TUBE – FROM OUR OWN FILLING STATION – AT ANY TIME!



EXCLUSIVE

In order to adjust the diversity of TAMPOPRINT® products and their fields of application to the needs of the market, we offer to you the ink types "O", "R" and "K" in the new 200 ml ink tube which stands out thanks to further features:

- ✓ ideal for low ink dosing
- ✓ practical and clean handling
- ✓ low remaining quantities
- ✓ low disposal costs
- ✓ environmental-friendly packaging



Enquiry for tampon printing inks

FAX + 49 7150 928-433 / mailto:colour@tampoprint.de

Contact Details

Company Name _____ Contact Person* _____

Sector _____ Position* _____

Street _____ Phone* _____

Postal Code _____ Fax* _____

City _____ Mobile* _____

Country _____ E-Mail* _____

☐ yes, newsletter _____ Internet _____

Customer number

Machine order number before 2004 M-

Machine order number since 2004 VAM-

Accessories order number VAZ-

Serial machine number (A.T.)

Machine type

T

L

Date of invoice

Your Enquiry No. _____

Quote required for

☐ Standard tampon printing ink, 1 litre

☐ Minimum quantity, 200 ml tube

☐ 250 ml ink sample of special ink for your test print, ink sample 250 ml container

☐ 500 ml ink sample of special ink for your test print, ink sample 500 ml container

☐ Offer for test prints incl. 250 ml colour sample

Kindly state your specifications!

¹⁾ = This input is vital in order to ensure the correct ink type selection.

²⁾ = This input is vital in order to ensure the optimal special ink shade. We recommend you to send a sample in the case of all surface colours except black, white and transparent.

¹⁾ Tampon printing system: _____

Ink quantity required: _____

Depending on the ink type, a surcharge will apply for minimum order quantities of special inks.

Ink shade system: _____ e.g. Pantone, RAL etc.

Ink shade system code: _____ e.g. RAL 7046 etc.

Ink type: _____ e.g. B, TP-PP, RDF etc.

²⁾ Material / Surface colour: _____ e.g. black, white, red etc.

¹⁾ Type of material: _____ Please indicate your precise material specifications, e.g. ABS, PP etc.

Notes:

Note on data protection *

TAMPOPRINT® AG assure you that your details will be handled confidentially in line with the data protection regulations:

☐ YES

"I agree that my details may be used for the purpose of support, sending of product information and the submission of service offers as well as for market research purposes by the TAMPOPRINT® AG and companies belonging to the TAMPOPRINT® Group. The dissemination to third parties with the exception of affiliated companies of TAMPOPRINT® AG and the TAMPOPRINT® trading organisation as well as to agencies entrusted with the customer care is excluded. By informing you about my email address and/or mobile phone number I agree to receive by email and/or SMS customer information from the TAMPOPRINT® Group or the TAMPOPRINT trading organisation and to receive phone calls for this purpose."

On request you can receive information about your details saved at TAMPOPRINT® AG and can ask for rectification, deletion or blocking of the details. Should you object to the processing of your details by hindsight, you can revoke your consent for future dissemination at any time by email: marketing@tampoprint.de or by phone: +49 7150 928-0.

Date _____ City _____ Signature customer / Stamp _____

ACCESSORIES

OPTIONS & CONSUMABLES

TAMPON PRINTING INKS AND ACCESSORIES ALWAYS ON THE SPOT



Service trolley



Modular Service-Center



Spraying bottle • Safety metering container • Metering container • Protective hand cream • Paper cups • Cleaning tissues • VISCO measuring set • Brush • Spatula • and many more

<p>Ink/doctoring cups in various designs</p>	<p>Options for your tampon printing machine</p>	<p>Cleaning units</p>	<p>Ink residue pick-up system</p>
<p>13 Cliché types – 6 cliché types developed by TAMPOPRINT®</p>	<p>Tampon data base Online! www.tampoprint.de</p>	<p>Special tampon forms Permanent Innovation!</p>	<p>Rotary printing cylinders CRS system Tampon rings patented</p>

E-Mail: salesparts@tampoprint.de



ORIGINAL



Dealer:



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"Ventes et Affaires Françaises"

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[http: www.tampoprint.de](http://www.tampoprint.de)

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ORIGINAL



The information in our ink catalogue is based on our current level of technical knowledge and experience. Due to the wide range of possible influences during processing and use, this does not release operators from the responsibility of carrying out their own checks. A legally binding guarantee of certain characteristics or suitability for a particular application cannot be assumed from our specifications.

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