Special Coates Screen Inks UV Varnishes & Inks



Applications Department, Training

Finishing prints with a matt-glossy or a glossy-matt contrast; or applying a fluorescent ink to achieve a brilliant appearance; or literally "highlight" a print with a haptic relief or texture effect? Apply a protective layer or an anti-slip layer on a floor? Make a matt glass or matt foil transparent? Point a safe way out of a dark room? You can easily achieve all this using UV-curing varnishes and inks.

In the following overview you will find information about our present range of special UV-varnishes and inks.



Serigraph by Rainer Michely, Nuremberg

FINISHING VARNISHES for Full and Partial Finishing

Our range of varnishes, mainly for finishing offset sheets. Gloss and matt varnish have been formulated especially for processing on cylinder presses or flatbed equipment.

UV 70/L-HV, UV 70/821 and UVN 70/122 are primarily used for achieving particular effects, even on difficult substrates.

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Uviscreen UV 6630 High G	Fabric suitable for processing	(threads/cm)		
 For one-sided overprinting of s Good flexibility, medium reactive Suitable for cutting and creasine Substrates: paper, cardboard 	150) to 165		
Uviscreen UV 2600 Matt V	arnish	140) to 180	
 Varnish for screen and offset pr Intermiscible with UV 6630 to o Substrates: paper, cardboard, P 				
UV 70/L-HV Gloss Varnish f	or (absorbent) uncoated pa	aper and cardboard 77	to 100	
 High viscosity, highly reactive, for one-sided prints Substrates: paper, cardboard 				
UV 70/821 Gloss Varnish, e	especially for highly absorbe	ent paper and cardboard 43	to 150	
• High viscosity, for one-sided p	rints on highly absorbent pape	r and cardboard		
UVN 70/122 Glossy, texture	effect, mostly used for par	rtial finishing 120	to 150	
 High viscosity, high thixotropy, Substrates: paper, cardboard, F 	exture			

TECHNICAL COATINGS

Varnishes with various specific properties, such as floor graphics, anti-slip effects, window clear. Different processing criteria.



Floor Graphics	(anti-slip) and texture effects		
MLS 70	Range of floor graphic varnishes	Fabric suitable for proc	cessing (threads/cm)
Also used for finishin To obtain these speci particle sizes from 40 fabrics ranging from		ects. I texture agents with oor graphic varnish	
MLS 70/00	Fine structure		100 -40
MLS 70/02	Coarse structure		24 -140
MLS 70/03	Medium Structure		43 -80
UVP 70/200	Window Clear		100 to 120
• High gloss, clear.	ructured foils (e.g. membrane switches, front Good mechanical and chemical resistances PC, primer-coated polyester foils	panels)	
Structure Varn	ishes		
UV 70/623	Coarse structure		100 -40
UV 70/635-MT	Fine structure		120 -34
switchesMatt structure, hi	ossy, transparent plastic surfaces, e.g., partial o ghly viscose, rigid. Results in a surface texture hanical and chemical resistances	-	



FINE

50 times enlarged **COARSE** Anti-slip varnish MLS 70/02



50 times enlarged

HAPTIC EFFECTS

Varnishes with a medium to high viscosity, adjusted for processing with coarse fabrics.

In combination with high built stencils (EOM) also suitable for printing of tactile relief structures.



U١	UV 70/511 Relief varnish, high gloss Fabric suitable for processing (threads/cm)				
••••	High viscosity. Good Printing (one-sided) Substrates: paper, ca	of high relief structures (up to 200µ) a	nd partial finishing	32 to 150	
U١	/ 70/597	Adjustment of UV 70/511 with	medium viscosity Sp	pecial rotary screens	
•	Especially for proces	sing with rotary screens (Stork, Gallus	, etc.) for roll labels		
U١	70/683	"Water Drop" effect varnish		32 to 64	
•	•	or prints (one-sided) of glossy, clear, h ctures up to approximately 100µ ardboard, PVC	ighly transparent dot-forms		
U١	VX2 70/841-BL	"Braille" effect varnish		32 to 77	
•		tropic adjustment, for printing (one-si to 400μ) resulting in highly tactile eff ardboard, PVC	5	82.999.122 E.299.909 BUTER E.E.E.E.C. BEE E.D.E.E.E.E.	
80	OUV 70/825-THIX	Varnish for tactile warning sig	ns on containers	32 to 43	
•		ixotropic adjustment, for printing (one re-treated) containers	-sided) of tactile warning signs		
N١	VTGL 70/00	High gloss relief varnish, for gl	ass containers	32 to 43	
•	Medium viscosity, th bottles, drinking gla Substrates: glass cor		elief decorations on		

BRONZE COLOURS Ready-to use UV Bronze Colours with a stable shelf life

The conventional bronze pigments we use for our bronze colour ranges B, AB and MG are hardly or not at all suited for UV-curing systems. B bronzes, e.g., those used for mixing of bronze colours by customers often only have a pot life of about 6-8 hours as they react with the UV-binders.

Ready-to-use bronze colours with a stable shelf life require special pigments and above all a formulation adjusted to the individual UV ink system.

We offer ready-to-print standard bronze colours with a stable shelf life in some of our UV ink ranges. These are listed below. Fabrics suitable for processing range from 120-34 to 150-31 threads/cm.

Ink Range	Silver	Rich Gold	Pale Gold
UVN	UVN 79/96	UVN 75/22	UVN 76/35
UVU	UVU 79/291	UVU 75/32	UVU 76/67
UVX2	UVX2 79/201	UVX2 75/25	—
UV-650018	UV79/134-650018	—	UV 76/43-650018
80UV	80UV 79/325	—	—
NVTGL	NVTGL-38004: PMS 877	NVTGL-38003: PMS 871	—
More adjustments of bronze colours upon request			

FLUORESCENT COLOURS

Fluorescent colours contain pigments which are triggered to "glow" by the invisible part of UV in the daylight. This part of UV light is transformed into visible light and increases the "light yield". We offer fluorescent colours with a very high colour intensity in our UV-ink range UVN.



Coates Screen "90 Colour Range"		Fabric suitable for processing (threads/cm) 120-34		
UVN-Fluorescent Colour	Colour			
UVN 90	Yellow		Costes Screen Inks	Coates Screen Inks
UVN 91	(Yellowish) Orar	nge	•	
UVN 92	Orange		AARSTONKAATS - COLOUR CAND	
UVN 93	Red		TL PLUORESCENT INK	C-MIX 2000
UVN 94	Pink			A manufacture of the first manufacture of the
UVN 95	Green		Contra Servin Inks Onder	

In addition to our own fluorescent colours with a high colour intensity we also offer special colour shades according to Pantone PMS C Neon in ink type UVN.

Flourescent colours according to "PMS C Neon"		Fabric suitable for processing (threads/cm) 120 -34			
PMS C	UVN- Special Colour	Colour	PMS C	UVN- Special Colour	Colour
PMS 801 C	UVN 99/01	Neon Blue	PMS 808 C	UVN 95/22	Neon Blue Green
PMS 802 C	UVN 95/16	Neon Green	PMS 809 C	UVN 90/15	Neon Citric Yellow
PMS 803 C	UVN 90/14	Neon Yellow	PMS 810 C	UVN 91/14	Neon Light Yellow
PMS 804 C	UVN 91/13	Neon Orange	PMS 811 C	UVN 92/08	Neon Light Orange
PMS 805 C	UVN 92/06	Neon Orange Red	PMS 812 C	UVN 94/15	Neon Light Pink
PMS 806 C	UVN 94/13	Neon Pink	PMS 813 C	UVN 94/17	Neon Light Magenta
PMS 807 C	UVN 94/16	Neon Magenta	PMS 814 C	UVN 94/18	Neon Violet

PHOSPHORESCENT COLOURS

Coates Screen "96 Range of Phosphorescent Colours"

To achieve phosphorescent prints special pigments are required. These pigments retain the light energy and emit that energy in the dark as luminescence.

We offer two phosphorescent colour adjustments in our **UVN** ink range. As phosphorescent pigments are transparent,

phosphorescent UV inks can be printed and cured using very course fabrics.

Basically, these adjustments can be processed using fabrics of 43 to 120 threads/cm. As the duration of the luminescence mainly depends on the thickness of the printed ink layer, generally very coarse fabrics are used.



UVN 96/39

Highly pigmented, yellow-greenish phosphorescent ink. Very long phosphorescent effect. Prints with long-term phosphorescence according to DIN 67510 are possible.

UVN 96/46

Highly pigmented, yellow-greenish phosphorescent ink. Only short-term phosphorescent effect. Suitable for applications such as advertising.

Coates Screen Inks GmbH Screen- and Pad Printing Inks

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