

UV1000 SCREEN

PROPERTIES

- Good adhesion on paper, cardboard, OPP lamination film and a broad series of screen and offset inks.
- Adhesion on other substrates should be tested prior to printing
- These varnishes show good flexibility, when bended or folded
- The varnishes are press-ready to print for screen
- The varnishes are low in odour
- The varnishes can be printed over offset inks
- Quick and safe drying but the surface tension of the film or the substrate should at least be 38 dynes/cm

Ref.	Characteristics	Gloss	Viscosity 21°C DIN 4 in sec	Viscosity 21°C Brookfield in mPa.s
UV1000	Standard screen varnish	High	50 – 70	
UV1001	UV embossing screenprinting varnish	High	150 – 200	
UV1002	For absorbing substrates	High		4200 – 6200
UV1003	Braille varnish for flatbed LV	High		8000 – 10000
UV1004	For exterior application	High	60 – 90	
UV1005	Braille varnish matt for flatbed	Low		8000 – 12000
UV1006	Perfecting varnish	High	50 – 70	
UV1007	Rotation braille varnish	High		900 – 1400
UV1008	For overprinting of digital prints	High		850 – 1150
UV1009	Soft touch varnish for plastics	Low		20000 – 30000
UV1010	Low viscosity screen varnish	High	30 – 50	
UV1011	Matt varnish	Low		1500 – 2500
UV1012	Pearlescent varnish	High		700 – 900
UV1013	Antislip	Medium		4000 – 6000
UV1014	All round	High	50 – 70	

UV1015	Gluable gloss overprint varnish	High	120 – 150	
UV1020	Braille varnish for flatbed HV	High		12000 – 15000
UV1021	Varnish for absorbing substrates	Medium		5000 – 7000
UV1022	For overprinting offset inks	High		60 – 90
UV0124	Hot stamping varnish	Medium		
UV1025	Frost varnish, ice image	High		
UV1026	Foam varnish	High		
UV1027	Sand effect varnish	Low		
UV1028	Frost varnish, snow image	High		
UV1029	Release varnish/ Anti-Graffiti	High		
UV1031	Varnish with luminescent properties	High	50 -70	
UV1032	High rub and scratch resistant	Medium	120 – 150	
UV1039	Soft touch for paper/carton	Medium	180 – 210	
UV1040	Low migration gloss	High	40 – 70	

RECOMMENDED MESH

Depends on the type of varnish and on the type of application (effect to be achieved). In case of doubt, please contact our office.

CLEANING THE MESH

The mesh should be cleaned with standard washing agent UV0009 or with our label free washing agent UV0002. Both are water dilutable.

DRYING

This varnish is formulated to cure under a dryer with one medium pressure mercury 120W/cm lamp at 30-40 metres/min. The better the UV drying, the better the adhesion on the substrate. 150mJoule is recommended. The curing depends on the kind of UV curing unit (reflectors, age and power of the UV lamps, the printed inklayer thickness and the belt speed of the UV curing unit). In certain cases the flow and the gloss can be improved by passing prints under IR lamps prior to UV curing.

POST CURING

The adhesion of the varnish is best evaluated after 24 hours. In this time interval, a post curing effect takes place during which the varnish cools down and the UV chemical termination reaction happens, resulting in a better adhesion.

SAFETY

UV varnishes are formulated free of heavy metals and comply with EN 71/3 standard.

These varnishes are REACH compliant and free from SVHC substances (Reach annex XIV) and substances mentioned on the candidate list (last update 16122014).

Please consult the MSDS.

SHELF LIFE & STORAGE

When the UV varnish is stored between 15 and 20°C in its closed original can, shelf life will be minimum 12 months from date of manufacture. Varnish taken from the press should not be returned to the original container, but stored separately to avoid contamination of unused UV varnish.

REMARKS

1. All surfaces must be free from grease, clean and dry before coating.
2. As said, the surface to be printed should at least be 38 dynes/cm. Any tension lower than 38 will inevitably result in a poor or no adhesion. We strongly recommend that the surface tension be measured prior to printing in order to avoid claims from the end user of the printed product.
3. The surface tension of the cured film with non gluable varnish is < 34 mN/m
4. We also strongly recommend, before starting the varnishing, to check the print for bleeding resistance, as certain pigments in the inks tend to bleed when overlacquered with UV varnishes.

This information is only meant for your guidance, we urge you to test our inks and products for your application before starting the actual job.