MIDACURE®
UV CLEAR COATINGS

MiDAD
Printing Inks

Where Innovation Meets Printing Excellence

FROM DAMASCUS TO THE WORLD

crafting premium printing inks that transform ideas into vibrant reality, one drop at a time.

Midad Inks since 1993 — A Journey of Innovation and Excellence

Founded from a visionary initiative in Damascus, Syria, Midad Inks has grown into an emerging global manufacturer of premium printing inks, driven by a commitment to innovation, quality, and sustainability. What began as a local ambition has evolved into a dynamic international enterprise serving businesses across the Arab world and beyond.

Since its inception, the company has focused on transforming creative ideas into vibrant visual results through advanced printing solutions. Built on strong technical expertise and a passion for precision, Midad Inks continuously develops high-performance products that meet the evolving demands of modern industries.

Vision and Mission

Midad Inks aims to redefine printing excellence by delivering high-quality ink solutions that combine performance, safety, and environmental responsibility. The company's mission is to provide reliable and innovative products that enhance printing quality while supporting sustainable industrial practices.

Core Objectives

- Deliver premium printing ink solutions for global markets.
- Support diverse industries including food and beverage, pharmaceuticals, cosmetics, and industrial packaging.
- Lead the transition toward environmentally responsible production methods.
- Expand regional and international market presence.

Key Achievements and Capabilities

Over the years, Midad Inks has achieved significant milestones through continuous research and development, expanding its product portfolio and manufacturing capabilities. Its main achievements include:

- Development of high-performance packaging inks for flexible packaging, labeling, and food-safe applications.
- Production of protective and decorative coating solutions for metal packaging and beverage cans.
- Introduction of advanced UV and electron beam radiation-curing inks for high-speed printing technologies.
- Implementation of eco-friendly formulations, including water-based and low-VOC inks to reduce environmental impact.
- Adoption of energy-efficient production processes and solar-powered manufacturing facilities.
- Establishment of zero-waste initiatives and chemical recycling programs to support sustainability goals.

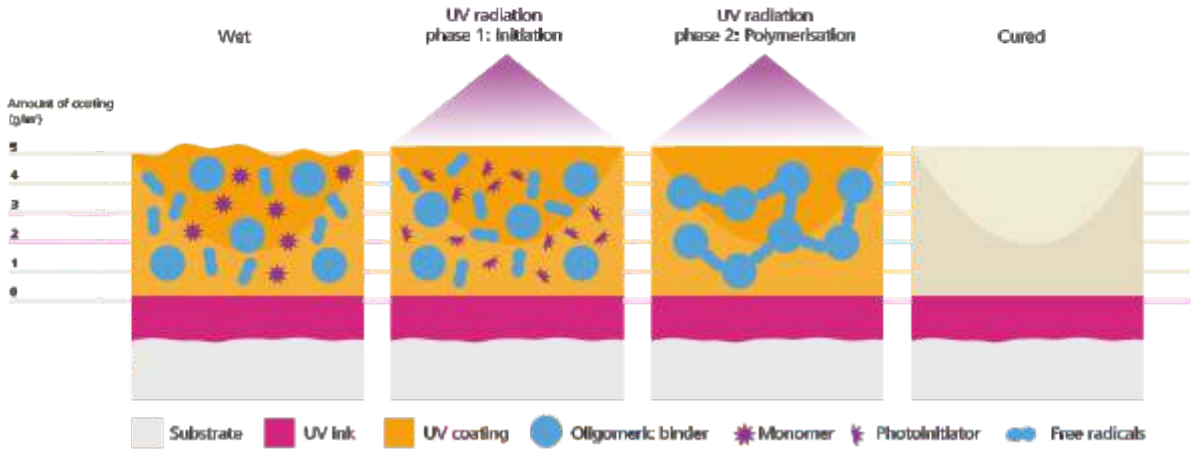
Global Growth and Industry Impact

From its Syrian roots, Midad Inks continues to expand its reach across international markets, building a reputation for quality, precision, and innovation. The company remains committed to shaping the future of the printing industry through technological advancement and responsible manufacturing practices, guided by its philosophy: ***"Excellence in every drop, precision in every print."***

Glossy, protective and durable

The MIDACURE® UV coating manufactured by MiDAD is a premium finish that offers excellent protection for printed items and allows for seamless further processing.

UV coatings are cured under ultraviolet radiation through a chemical reaction called chain polymerization. During the exposure to UV energy, photoinitiators become highly reactive particles, which then crosslink the acrylates to form a plastic film within milliseconds. This process is known as ultraviolet curing or UV curing, It boasts benefits such as rapid responsiveness, minimal odor, a glossy finish, and strong resistance to scratches. The coating is nearly 100% solid, and is composed of carefully chosen raw materials, enabling customization to meet specific needs. Moreover, the MIDACURE UV coating provides exceptional chemical resistance, excellent flow, and high resistance to scuffing, making it suitable for a variety of printing applications. MIDAD also supplies personalized coating formulations to meet individual customer requirements, along with technical services like FTIR curing analysis. On the other hand, MIDAD's LED-UV coatings are simple to work with, highly reactive, and durable. They facilitate the production of clear, high-contrast prints and achieve rapid curing despite low levels of radiant energy. These coatings offer benefits such as strong chemical resistance, excellent flow, and high scuff resistance, similar to those of the MIDACURE UV coating. LED-UV coatings also allow for the creation of clear, high-contrast print images and are environmentally friendly, offering a range of effects from a matte finish to a high-gloss MotionCoat and drip off. They are suitable for use on pressure-sensitive labels, shrink sleeves, and various other printing applications.



MIDACURE®
UV CLEAR COATINGS

The coatings featured in this brochure are a selection from our Midacure UV coating product program. We offer a variety of special coatings, such as UV-based primers and coatings for other printing processes likeweb offset and gravure. These coatings are available upon request.

Roller Coater UV Varnishes (GLOSS)

Roller Coater UV Varnishes: GLOSS

These are designed for use with roller coater machines, offering a range of viscosities suitable for different speeds and application thicknesses. The products in this range boast a good balance of gloss, adhesion, and scratch resistance, making them ideal for achieving a high-quality finish on paper and board substrates, as well as on certain plastics. The quick curing times enhance production efficiency.

		UV Varnish V20	UV Varnish V20/PI
Technical Specifications	Viscosity*	13 s	13 s
	Gloss @20°	70	70
	Slip	●●●	●●●
	Adhesion	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●
	Curing Conditions	50-60 mj /cm²	50-60 mj /cm²
Details	Substrate	Paper and board ,PP,PE.	Paper and board ,PP,PE.
	Key Features	Goodgloss,high performance,good adhesion and scratch resistance.	Good gloss,good adhesion , scratch resistance , fast cure.

		UV Varnish V20/A	UV Varnish V20/S	UV Varnish V20/G
Technical Specifications	Viscosity*	13 s	13 s	13 s
	Gloss @20°	68	68	70
	Slip	●●●	●●●	●●●
	Adhesion	●●●●	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●	●●●●
	Curing Conditions	60-50 mj /cm²	60-50 mj /cm²	60-50 mj /cm²
Details	Substrate	Paper and board.	Paper and board ,PP,PE.	Paper and board ,PP,PE.
	Key Features	Good gloss,high performance,good adhesion and scratch resistance ,low foaming.	Goodgloss,high performance,good adhesion and scratch resistance , high slip.	Goodgloss,high performance,good adhesion, scratch resistance, good glue ability and foil stamping.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● *High* ●●● *Good* ●● *Average* ● *Poor*
*Viscosity ** BY Lovay viscometer / 25C°*

Note: Benzophenone free version is available upon request.

Roller Coater UV Varnishes: GLOSS

These are designed for use with roller coater machines, offering a range of viscosities suitable for different speeds and application thicknesses. The products in this range boast a good balance of gloss, adhesion, and scratch resistance, making them ideal for achieving a high-quality finish on paper and board substrates, as well as on certain plastics. The quick curing times enhance production efficiency.

		UV Varnish V30	UV Varnish V30/PI
Technical Specifications	Viscosity*	15 s	15 s
	Gloss @20°	72	72
	Slip	●●●	●●●
	Adhesion	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●
	Curing Conditions	50-60 mj /cm²	50-60 mj /cm²
Details	Substrate	Paper and board ,PP,PE,	Paper and board ,PP,PE,
	Key Features	Goodgloss,high performance,good adhesion and scratch resistance.	Goodgloss,high performance,good adhesion and scratch resistance , fast cure.

		UV Varnish V54	UV Varnish V54/PI
Technical Specifications	Viscosity*	18 s	18 s
	Gloss @20°	75	75
	Slip	●●●	●●●
	Adhesion	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●
	Curing Conditions	50-60 mj /cm²	50-60 mj /cm²
Details	Substrate	Paper and board, PP,PE.	Paper and board, PP,PE.
	Key Features	Highgloss,high performance,good adhesion and scratch resistance.	Highgloss,high performance,good adhesion and scratch resistance , fast cure.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● High ●●● Good ●● Average ● Poor
*Viscosity ** BY Laray viscometer / 25C°*

Note: Benzophenone free version is available upon request.

		UV Varnish V8	UV Varnish V8/PI
Technical Specifications	Viscosity*	9 s	9 s
	Gloss @20°	60	60
	Slip	●●●	●●●
	Adhesion	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●
	Curing Conditions	50-60 mj /cm²	50-60 mj /cm²
Details	Substrate	Paper and board.	Paper and board.
	Key Features	Low viscosity,good performance , good adhesion and scratch resistance.	Low viscosity,good performance , good adhesion and scratch resistance , fast cure.

		UV Lacquer EV310	UV Lacquer EV350
Technical Specifications	Viscosity*	10 s	60 s
	Gloss	60	78
	Slip	●●●	●●●
	Adhesion	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●
	Curing Conditions	50-60 mj /cm²	60-80 mj /cm²
Details	Substrate	Rigid PVC.	Rigid PVC.
	Key Features	Low viscosity , high gloss, good adhesion and scratch resistance.	Higher viscosity ,higher gloss, good adhesion and scratch resistance.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/25C°*
●●●● *High* ●●● *Good* ●● *Average* ● *Poor*
*Viscosity ** BY Lovay viscometer / 25C°*

Note: Benzophenone free version is available upon request.


COLLECTION
Luxury Properties
Offset Printing
UV Varnishes
(GLOSS)
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Offset Printing UV Varnishes: GLOSS

Optimized for the offset printing process, these varnishes are formulated to provide a high-gloss finish while maintaining the quality of the print. They come with various viscosities to handle different printing demands, ensuring robust adhesion and resistance to scratches. These varnishes are suitable for a variety of paper and board ,applications providing durability and a visually striking appearance.

		UV Varnish V54	UV Varnish V64	UV Varnish V70	UV Varnish V90
Technical Specifications	Viscosity*	18 s	68-64 s	80 s	130 s
	Gloss @20°	75	80	82	90
	Slip	●●●	●●●	●●●	●●●
	Adhesion	●●●●	●●●●	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●	●●●●	●●●●
	Curing Conditions	50-60 mj /cm²	60-80 mj /cm²	60-80 mj /cm²	60-80 mj /cm²
Details	Substrate	Paper and board, PP,PE.	Paper and board.	Paper and board.	Paper and board.
	Key Features	Highgloss,high performance,good adhesion and scratch resistance.	High viscosity ,high gloss , good adhesion and scratch resistance.	High viscosity ,very high gloss , good adhesion and scratch resistance	High viscosity ,very high gloss , good adhesion and scratch resistance

		UV Varnish V190
Technical Specifications	Viscosity*	126 Poise **
	Gloss @20°	100
	Slip	●●●
	Adhesion	●●●●
	Scratch Resistance	●●●●
	Curing Conditions	60-80 mj /cm²
Details	Substrate	Paper and board.
	Key Features	High viscosity ,very high gloss , good adhesion and scratch resistance.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● *High* ●●● *Good* ●● *Average* ● *Poor*
*Viscosity ** BY Laray viscometer / 25C°*

Note: Benzophenone free version is available upon request.

Flexo Printing UV Varnishes (GLOSS)

Flexo Printing UV Varnishes: GLOSS

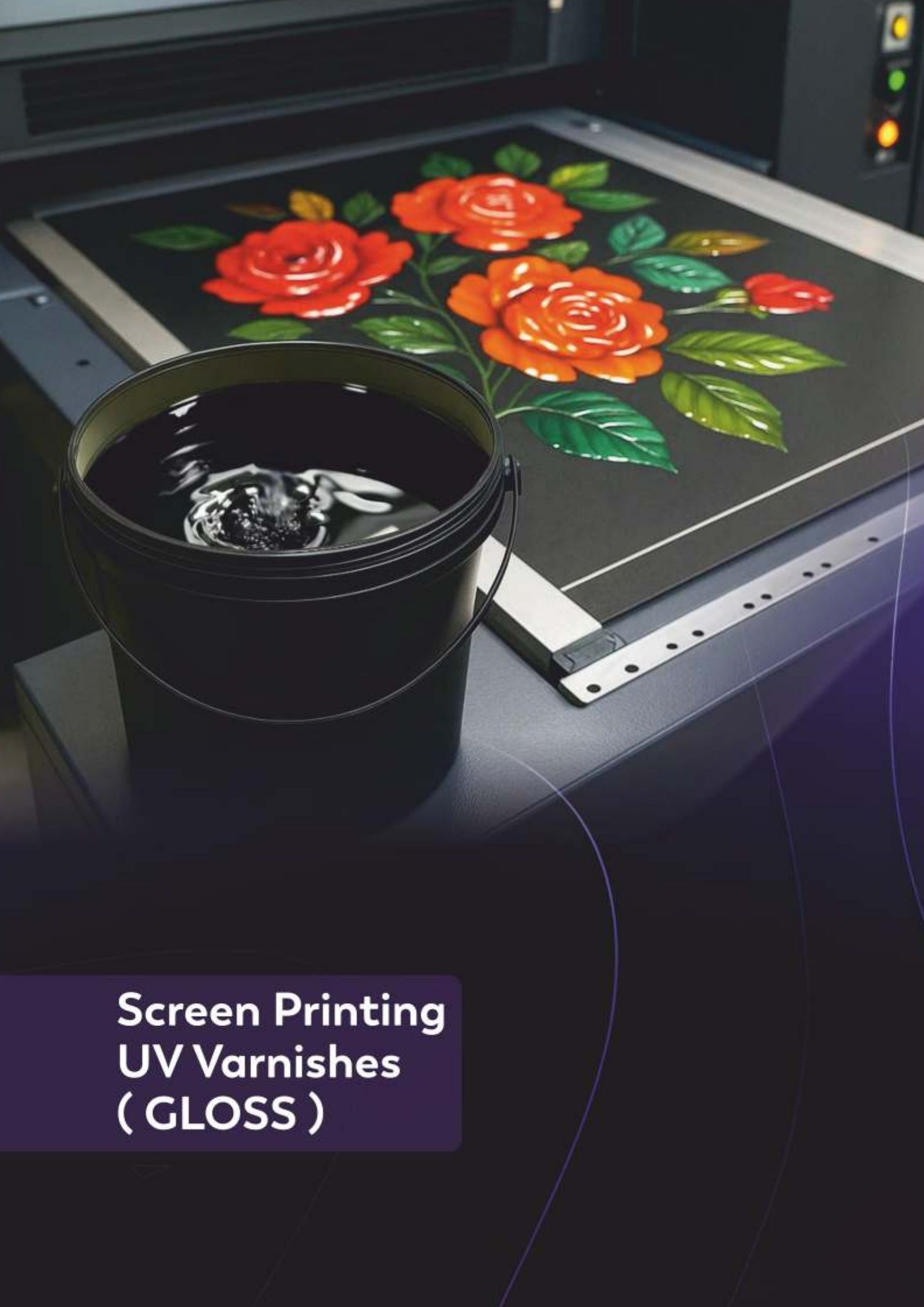
Tailored for the flexographic printing industry, the varnishes in this category offer rapid curing and high gloss, essential for high-speed printing processes. They are engineered to deliver excellent adhesion and scratch resistance on a wide range of substrates including paper, PE, PP, and labels, thus supporting the production of high-quality packaging materials and labels.

		UV Varnish EV20	UV Varnish EV54
Technical Specifications	Viscosity*	12 s	46-50 s
	Gloss @20°	70	80
	Slip	●●●	●●●
	Adhesion	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●
	Curing Conditions	60 mj /cm ²	60 mj /cm ²
Details	Substrate	Paper,PE,PP ..(Labels)	Paper,PE,PP ..(Labels)
	Key Features	High gloss,fast cure , excellent adhesion ,good scrtach resistance.	High gloss, higher viscosity, fast cure , excellent adhesion good scrtach resistance.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● *High* ●●● *Good* ●● *Average* ● *Poor*
*Viscosity ** BY Laray viscometer / 25C°*

Note: Benzophenone free version is available upon request.



Screen Printing UV Varnishes (GLOSS)

Screen Printing UV Varnishes:GLOSS

These varnishes are specifically developed for screen printing applications, providing a high-gloss effect recommended for spot UV treatments. They are characterized by their varying levels of viscosity, catering to different screen mesh counts and printing techniques. Suitable for a variety of substrates, these varnishes are designed to enhance the tactile and visual quality of printed materials, making them suitable for both aesthetic and functional applications.

		UV Varnish FV8	UV Varnish FV20	UV Varnish FV30	UV Varnish FV64
Technical Specifications	Viscosity*	9 s	15 s	30 s	70 s
	Gloss @20°	55	60	60	70
	Slip	●●●	●●●	●●●	●●●
	Adhesion	●●●●	●●●●	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●	●●●●	●●●●
	Curing Conditions	60 mj /cm²	60 mj /cm²	60 mj /cm²	60-80 mj /cm²
Details	Substrate	Paper ,board,PE,PP	Paper ,board,PE,PP	Paper ,board,PE,PP	Paper ,board,PE,PP
	Key Features	Very low viscosity , good gloss recommended for spot UV.	Low viscosity , good gloss recommended for spot UV.	Low viscosity , good gloss recommended for spot UV.	High viscosity ,high gloss recommended for spot UV.

		UV Varnish FV70	UV Varnish FV90	UV Varnish FV190	Silk Screen SV67
Technical Specifications	Viscosity*	83 s	140 s	128 Poise**	67 s
	Gloss @20°	75	80	85	●●
	Slip	●●●	●●●	●●●	sand
	Adhesion	●●●●	●●●●	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●	●●●●	
	Curing Conditions	60-80 mj /cm²	60-80 mj /cm²	60-80 mj /cm²	50-60 mj /cm²
Details	Substrate	Paper ,board,PE,PP	Paper ,board,PE,PP	Paper ,board,PE,PP	Paper ,board,PE,PP
	Key Features	High viscosity ,high gloss recommended for spot UV.	High viscosity ,high gloss recommended for spot UV.	High viscosity ,high gloss recommended for embossed application	High viscosity ,special bubbles effect recommended for spot UV.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● High ●●● Good ●● Average ● Poor
*Viscosity ** BY Laray viscometer / 25C°*

Note: Benzophenone free version is available upon request.

UV Overprint Varnish (Matt)

UV Overprint Varnish Matt

These products provide a matte finish, offering a smooth touch and resistance to scratching and adhesion problems. They are optimized for flexo printing, letterpress, silk screen, and roller coater applications, offering a high-quality, tactile finish.

		UV Varnish MV8	UV Varnish MV30	LPUV-MV	UV Varnish FMV8
Technical Specifications	Viscosity*	13 s	15 s	200 Poise **	Thixotropy
	Gloss @85°	63	54	20	20
	Slip	●●●	●●●●	●●●	●●●
	Adhesion	●●●●	●●●●	●●●●	●●●●
	Scratch Resistance	●●●●	●●●●	●●●●	●●●●
	Curing Conditions	60-80 mj /cm²	60-80 mj /cm²	60-80 mj /cm²	60-80 mj /cm²
Details	Substrate	Paper,board ,PE,PP (Labels)	Paper,PE,PP, PVC,PET..	Paper,board ,PE,PP (Labels)	Paper,board ,PE,PP
	Key Features	Low viscosity . high matt effect ,good adhesion smooth touch and good scratch resistance.	Low viscosity , high matt effect ,good adhesion , smooth touch and good scratch resistance, recommended for flexo printing and roller coater application.	High viscosity , high matt effect ,good adhesion, smooth touch and good scratch esistance recommended for letterpress and offset printing.	High viscosity ,high matt effect recommended for spot UV.

		UV Lacquer EV370	UV Lacquer MEV370	UV Lacquer MEV390
Technical Specifications	Viscosity*	10 s	12 s	12 s
	Gloss @85°	62	43	36
	Slip	●●●●	●●●●	●●●●
	Adhesion	●●●●	●●●●	●●●●
	Scratch Resistance	●●●	●●●	●●●
	Curing Conditions	60-80 mj /cm²	60-80 mj /cm²	60-80 mj /cm²
Details	Substrate	Rigid PVC	Rigid PVC	Rigid PVC
	Key Features	Low viscosity, semi glass effect,good adhesion, smooth touch and good scratch resistance, recommended for roller coater.	Low viscosity, good matt effect,good adhesion, smooth touch and good scratch resistance, recommended for roller coater.	Low viscosity ,higher matt effect ,smooth touch and good scratch resistance, recommended for roller coater.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● *High* ●●● *Good* ●● *Average* ● *Poor*
*Viscosity ** BY Laray viscometer / 25C°*

Note: Benzophenone free version is available upon request.

Special UV Coatings Applications

Special UV Products

ory includes unique applications such as UV lamination adhesives and cold foil formulations, providing properties like good lamination, high performance, and excellent adhesion for decorative and functional applications.

		UV Lamination Adhesive V/L	Flexo Cold Foil CF	Letter Press Cold Foil CF
Technical Specifications	Viscosity*	25 s	44 s	175 Poise **
	Gloss	●●	●●	●●
	Slip	●	●	●
	Adhesion	●●●●	●●●●	●●●●
	Flexible	●●●●	●●●●	●●●●
	Curing Conditions	60-80 mj /cm²	60-80 mj /cm²	60-80 mj /cm²
	Application Method	Roller coater ,Flexo	Flexo	Letter press , Offset
Details	Substrate	Board ,PE,PP	Paper,,PE,PP,PVC,...	Paper,,PE,PP,PVC,...
	Key Features	low viscosity , good lamination property for board cellophane, Label cellophane..	Low viscosity , high performance,good adhesion.	High viscosity , high performance , good adhesion.

Additives:
OPV001-: UV thinner to reduce viscosity
OPV002-: Curing aid to increase curing speed
OPV003-: Adhesion Promoter
UV Wash 1523 : UV cleaner fast drying.
UV Wash 1524 : UV cleaner slow drying.

*Viscosity * BY Zhan Cup - 4/ 25C°*
●●●● High ●●● Good ●● Average ● Poor
*Viscosity ** BY Lavay viscometer / 25C°*

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