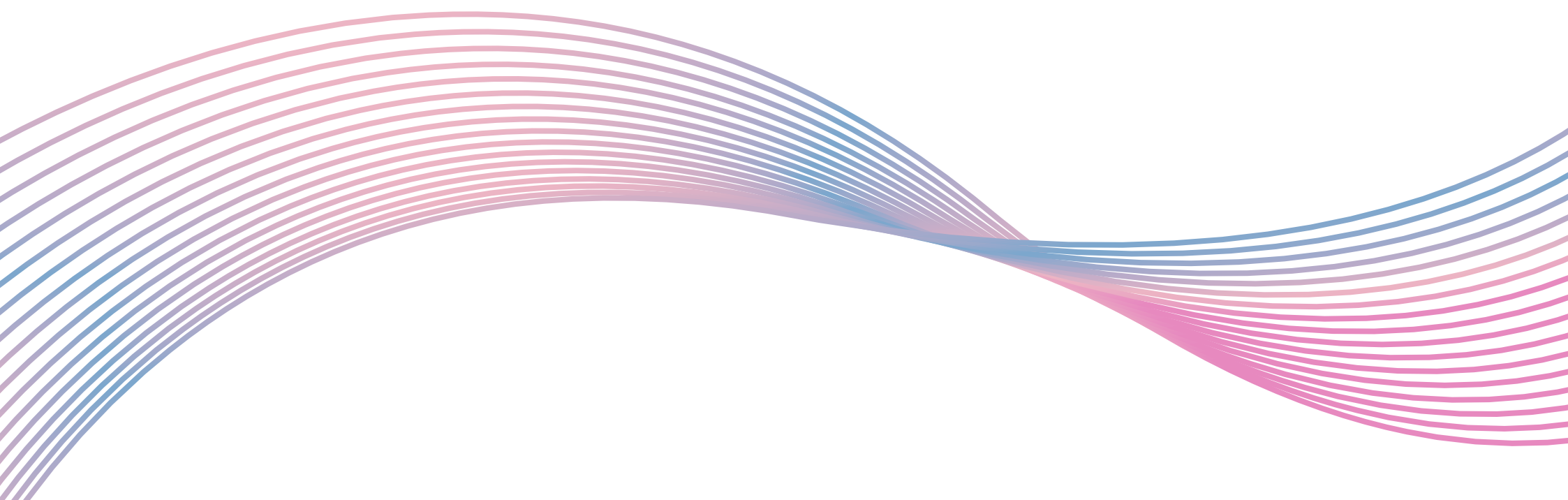




MIDACURE[®]

UV CLEAR COATINGS

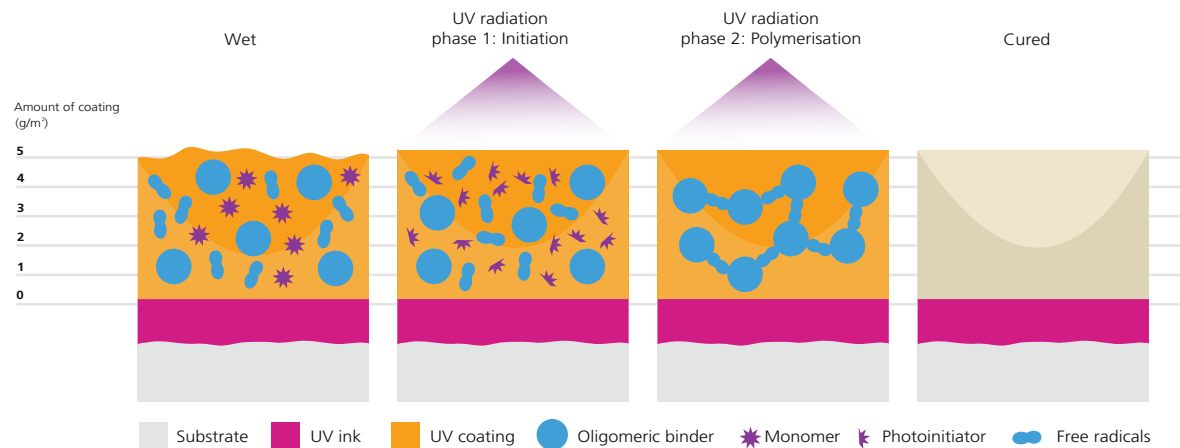


Glossy, protective and durable

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

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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 like web offset and gravure. These coatings are 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.

Product Name	Technical Specifications						Applications	
	Viscosity*	Gloss	Slip	Adhesion	Scratch resistance	Curing conditions	Substrate	Key Features
UV Varnish V8	8 s	●●	●●●	●●●	●●●●	60-50mj/cm ²	Paper and board	Low viscosity, good performance, good adhesion and scratch resistance
UV Varnish V20	12 s	●●●	●●●	●●●	●●●●	60-50mj/cm ²	Paper and board, PP, PE	Good gloss, high performance, good adhesion and scratch resistance.
UV Varnish V20/PI	12 s	●●●	●●●	●●●	●●●●		Paper and board, PP, PE	Good gloss, good adhesion, scratch resistance, fast cure.
UV Varnish V20/PI	12 s	●●●	●●●	●●●	●●●●	60-50 mj/cm ²	Paper and board	Good gloss, high performance, good adhesion and scratch resistance, low foaming.
UV Varnish V30	16 s	●●●	●●●	●●●	●●●●	60-50mj/cm ²	Paper and board, PP, PE	Good gloss, high performance, good adhesion and scratch resistance.
UV Varnish V54	18 s	●●●	●●●	●●●	●●●●	60-50mj/cm ²	Paper and board	Good gloss, high performance, good adhesion and scratch resistance.
UV Lacquer EV310	10 s	●●●	●●●	●●●●	●●●	60-50mj/cm ²	rigid PVC	Low viscosity, high gloss, good adhesion and scratch resistance
UV Lacquer EV350	60 s	●●●●	●●●	●●●●	●●●	80-60mj/cm ²	rigid PVC	Higher viscosity, higher gloss, good adhesion and scratch resistance

Viscosity * BY Zhan Cup - 4/25C°

●●●● High ●●● Good ●● average ● Poor

Viscosity ** BY Laray viscometer / 25C°

Additives

OPV001:- UV thinner to reduce viscosity

OPV002:- Curing aid to increase drying speed

OPV003:- Adhesion Promoter

UV Wash 1523 : UV cleaner

UV Wash 1524 : UV cleaner

Note: Benzophenone free version is available upon request

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.

Product Name	Technical Specifications						Applications	
	Viscosity*	Gloss	Slip	Adhesion	Scratch resistance	Curing conditions	Substrate	Key Features
UV Varnish V54	18 s	●●●	●●●	●●●	●●●●	60-50 mj /cm ²	Paper and board	Goodgloss,high performance,good adhesion and scratch resistance .
UV Varnish V64	67-64 s	●●●	●●●	●●●	●●●●	80-60 mj /cm ²	Paper and board	High viscosity ,high gloss , good adhesion and scratch resistance
UV varnish V70	80-70 s	●●●	●●●	●●●	●●●●	80-60 mj /cm ²	Paper and board	High viscosity ,very high gloss , good adhesion and scratch resistance
UV varnish V90	130 s	●●●	●●	●●●	●●●●	80-60 mj /cm ²	Paper and board	High viscosity ,very high gloss , good adhesion and scratch resistance
UV varnish V190	126 Poise **	●●●	●●●	●●●	●●●●	80-60 mj /cm ²	Paper and board	High viscosity ,very high gloss , good adhesion and scratch resistance

Viscosity *BY Zhan Cup - 4/25C°

●●●●High ●●● Good ●● average ●Poor

Viscosity ** BY Laray viscometer / 25C°

Additives

OPV001:- UV thinner to reduce viscosity

OPV002:- Curing aid to increase drying speed

OPV003:- Adhesion Promoter

UV Wash 1523 : UV cleaner

UV Wash 1524 : UV cleaner

Note: Benzophenone free version is available upon request

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.

Product Name	Technical Specifications					Applications		
	Viscosity*	Gloss	Slip	Adhesion	Scratch resistance	Curing conditions	Substrate	Key Features
UV varnish EV20	12s	●●●	●●●	●●●	●●●●	60 mj /cm ²	Paper,PE,PP ..(Labels)	High gloss,fast cure , excellent adhesion ,good scrtach resistance .
UV varnish EV54	40s	●●●	●●●	●●●	●●●●	60 mj /cm ²	Paper,PE,PP ..(Labels)	High gloss, higher viscosity, fast cure , excellent adhesion good scrtach resistance .

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

Additives
 OPV001-: UV thinner to reduce viscosity
 OPV002-: Curing aid to increase drying speed
 OPV003-: Adhesion Promoter
 UV Wash 1523 : UV cleaner
 UV Wash 1524 : UV cleaner
Note: Benzophenone free version is available upon request

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.

Product Name	Technical Specifications						Applications	
	Viscosity*	Gloss	Slip	Adhesion	Scratch resistance	Curing conditions	Substrate	Key Features
UV Varnish FV20	14 s	●●●	●●●	●●●	●●●	60 mj /cm ²	Paper ,board,PE,PP	Low viscosity , good gloss recommended for spot UV
UV Varnish FV64	70 s	●●●	●●●	●●●	●●●	80-60 mj /cm ²	Paper ,board,PE,PP	High viscosity ,high gloss recommended for spot UV
UV Varnish FV90	70 s	●●●	●●●	●●●	●●●	80-60 mj /cm ²	Paper ,board,PE,PP	High viscosity ,high gloss recommended for spot UV
UV Varnish FV190	95 Poise**	●●●	●●●	●●●	●●●	80-60 mj /cm ²	Paper ,board,PE,PP	High viscosity ,high gloss recommended for embossed application

Viscosity * BY Zhan Cup - 4/25C°

●●●● High ●●● Good ●● average ● Poor

Viscosity ** BY Laray viscometer / 25C°

Additives

OPV001:- UV thinner to reduce viscosity

OPV002:- Curing aid to increase drying speed

OPV003:- Adhesion Promoter

UV Wash 1523 : UV cleaner

UV Wash 1524 : UV cleaner

Note: Benzophenone free version is available upon request

UV Over Print 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.

Product		Technical Specifications						Applications	
Type	Name	Viscosity*	Matt	Slip	Adhesion	Scratch resistance	Curing conditions	Substrate	Key Features
Flexo Printing	UV Varnish MV8	13 sec	●●●●	●●●	●●●●	●●●	80-60 mj /cm ²	Paper,board ,PE,PP (Labels)	Low viscosity , high matt effect ,good adhesion smooth touch and good scratch resistance .
Flexo Printing	UV Varnish MV1/8	13 sec	●●●●	●●●●	●●●●	●●●●	80-60 mj /cm ²	Paper,PE,PP,PVC,PET..	Low viscosity , high matt effect ,good adhesion , smooth touch and good scratch resistance
Letter Press	UV Varnish MV	200 Poise **	●●●	●●●	●●●●	●●●	80-60 mj /cm ²	Paper,board ,PE,PP (Labels)	High viscosity , high matt effect ,good adhesion, smooth touch and good scratch esistance
Silk screen	UV Varnish FMV8	Thixotropy	●●●	●●●	●●●●	●●●	80-60 mj /cm ²	Paper,board ,PE,PP	High viscosity ,high matt effect recommended for spot UV
Roller coaters	UV Lacquer MEV370	13 sec	●●●	●●●●	●●●●	●●●	80-60 mj /cm ²	rigid PVC	Low viscosity, good matt effect,god adhesion, smooth touch and good scratch resistance .
Roller coaters	UV Lacquer MEV390	15 sec	●●●●	●●●●	●●●●	●●●	80-60 mj /cm ²	rigid PVC	Low viscosity ,higher matt effect ,smooth touch and good scratch resistance.

Viscosity * BY Zhan Cup - 4/25C°

●●●● High ●●● Good ●● average ● Poor

Viscosity ** BY Laray viscometer / 25C°

Additives

OPV001:- UV thinner to reduce viscosity

OPV002:- Curing aid to increase drying speed

OPV003:- Adhesion Promoter

UV Wash 1523 : UV cleaner

UV Wash 1524 : UV cleaner

Note: Benzophenone free version is available upon request

Special UV Coatings Applications

This category 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.

Product Name	Technical Specifications							Applications			
	Viscosity*	Gloss	Slip	Glue&hot stamping	Adhesion	Flexible	Scratch resistance	Application method	Curing conditions	Substrate	Key Features
UV Lamination adhesive VL	25 s	••	•		••••	••••		Roller coater ,Flexo	80-60 mj/cm ²	Board ,PE,PP	low viscosity , good lamination property for board cellophane, Label cellophane..
Flexo Cold foil CF	40 s	••	•		••••	••••		Flexo	80-60 mj/cm ²	Paper,,PE,PP,PVC,...	Low viscosity , high performance,good adhesion.
Letter Press cold foil CF	175 Poise	••	•		••••	••••		Letter press , Offset	80-60 mj/cm ²	Paper,,PE,PP,PVC,...	High viscosity , high performance , good adhesion.
UV Varnish V20/G	12 S	•••	•••	✓	•••	•••		Roller coater	60-50 mj/cm ²	Paper and board	High gloss,high performance,good adhesion, scratch resistance, good glue ability and foil stamping.
Silk screen SV64	67 S	••	sand		•••			Screen printing	60-50 mj/cm ²	Paper ,board,PE,PP	High viscosity ,special sand effect recommended for spot UV

Viscosity *BY Zhan Cup - 4/25C°

••••High ••• Good •• average •Poor

Viscosity ** BY Laray viscometer / 25C°

Additives

OPV001:- UV thinner to reduce viscosity

OPV002:- Curing aid to increase drying speed

OPV003:- Adhesion Promoter


UV Wash 1523 : UV cleaner

UV Wash 1524 : UV cleaner

Note: Benzophenone free version is available upon request




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