

A photograph of a paper mill. In the foreground, several large, dark, cylindrical rollers are visible, arranged in a row. A colorful, multi-colored paper strip is being processed between the rollers, creating a blurred, rainbow-like effect due to motion. The background shows more industrial machinery and structural elements of the mill.

BODO MÖLLER CHEMIE

Engineer chemistry

Photoinitiators
and UV curing binders

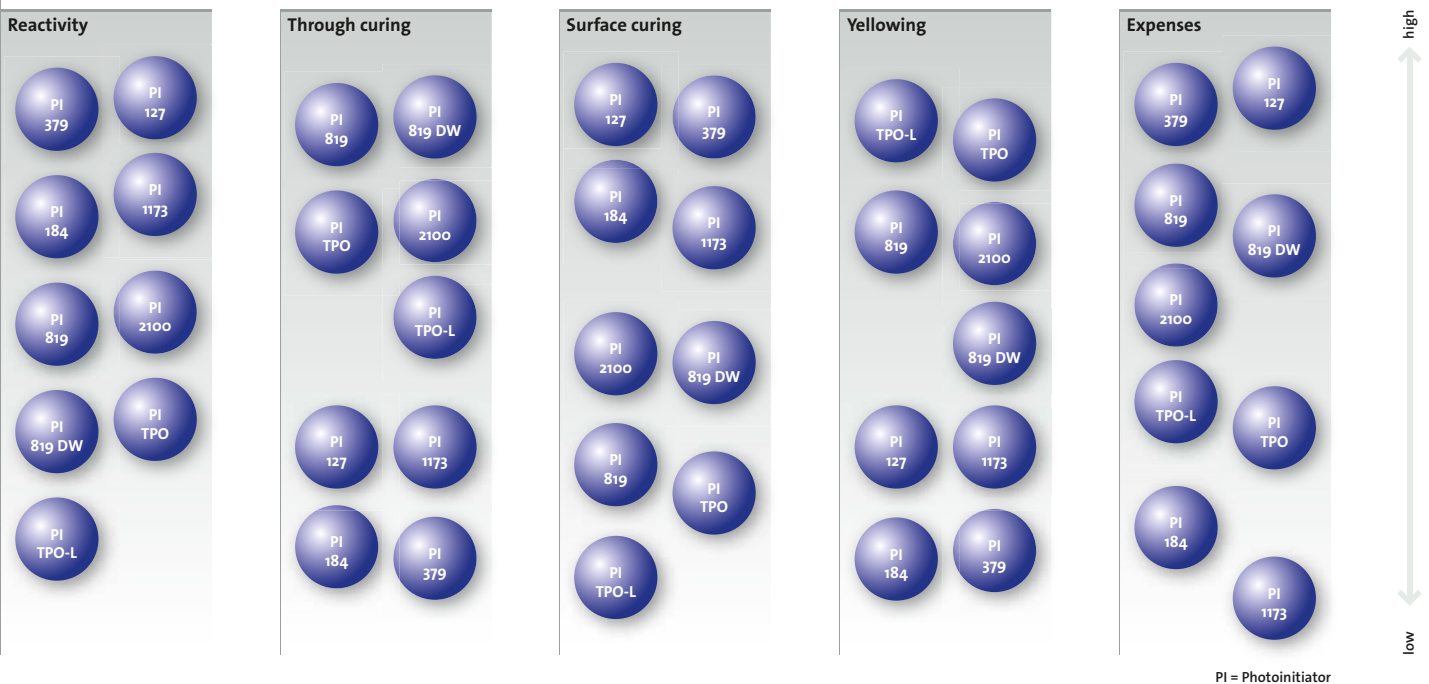
Photoinitiators

Photoinitiators are the key compound in UV curable coating and resin formulations. Decorative and protective coatings for wood, paper, metal and other substrates can be cured.

Product name	Properties	MP/BP in °C	Form	Solubility	UV curing applications																			
					UPES Wood top- and Intermediate-Coatings	Acrylate-Wood Top- and Intermediate-Coatings	Wood filler	Clear top coatings on plastic and metal	Pigmented top coatings on plastic and metal	UV powder coatings	Dispersions for facades	Adhesives	Glass fibre Composite	Gel coatings	Thick film polymerization	UV stabilized clear coating	XI- and Xn-free applications	Low volatility and low odour						
Photoinitiator 127	Surface curing, for clear systems, co-initiator for pigmentation systems	82-90	s	○		○	●							●									●	
Photoinitiator 184	Surface curing, for clear systems, co-initiator for pigmentation systems	45-49	s	●	●	●	○	●	●					●	●	●					●	●		
Photoinitiator 379	Excellent curing, for full shades	82-87	s (sb)	-										○							○		●	●
Photoinitiator 819	Ideal for opaque pigment systems and for stabilized systems, excellent curing properties	127-133	s	○	●		●		●	●				●	●	●	●	●						●
Photoinitiator 819 DW	Ideal for opaque pigment systems and for stabilized systems, excellent curing properties	-	l	●			●		●				○								●	●		●
Photoinitiator 2100	Ideal for opaque pigment systems, easy to incorporate	-	l	●	●																	●	●	
Photoinitiator 1173	Surface curing, for clear systems, co-initiator for pigmented systems	4	l	●	○	●	○	●	●					○	○	○						●		
Photoinitiator TPO	Ideal for opaque pigment systems and for stabilized systems, excellent curing properties	88-92	s	-	●		●		●	●				○	●	●	●	●	●	●	●	●		●
Photoinitiator TPO-L	Ideal for pigmented and UV stabilized systems	-	l	●	●		●		●	●				○	●	●	●	●	●	●	●	●		●

s = solid, l = liquid, sb = solvent based, ● = high, ○ = low

Properties of photoinitiators in clear coatings



UV curing resins and acrylate monomers

UV systems occupy an important position in the field of wood varnishes, printing inks and composites – 3D printing is also increasingly being used in UV systems.

UV curable coating systems are usually based on UV curable acrylic binders which are cured by initiators. With Laromer resins we offer a wide range of binders and reactive diluents. In addition to Laromer binders, we also offer acrylate monomers and intermediates for the production and modification of UV binders and other binder systems.

UV binders

- ▶ Laromer epoxy acrylates
- ▶ Laromer polyester acrylates
- ▶ Laromer polyether acrylates
- ▶ Laromer amine modified polyether acrylates
- ▶ Laromer urethane acrylates
- ▶ Laromer water thinnable acrylates
- ▶ Laromer dual-cure acrylic

Reactive diluent

- ▶ Laromer TMPTA
- ▶ Laromer BDDA
- ▶ Laromer HDDA
- ▶ Laromer TPGDA
- ▶ Laromer DPGDA
- ▶ Ethyl diglycol acrylate
- ▶ 4-HBA
- ▶ DVE-3

Monomers

- ▶ Acrylat monomers
- ▶ Hydroxyacrylate monomers
- ▶ Methacrylate monomers
- ▶ SPEGMA
- ▶ BEPEGMA
- ▶ MPEGMA

Intermediates

- ▶ Vinyl Monomers
- ▶ Pyrrolidone
- ▶ Imidazole
- ▶ Acetylen alcohols
- ▶ Special Acrylics

ISO 9001 Quality Management


ISO 14001 Environmental Management


OHSAS 18001 Occupational Health and Safety

EN 9120 Distribution and Repacking for Aviation Industry

DIN 6701 Adhesive Bonding of Railway Vehicles

and Parts for Adhesive Applications Laboratory

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 ESAD/SQAS

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