



We create chemistry

Energy Curable Resins and Additives

High quality and functional oligomers, monomers, and additives for a wide range of formulation requirements.



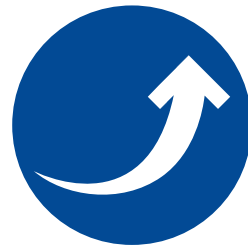
Energy Curable Resins and Additives

Benefits of UV

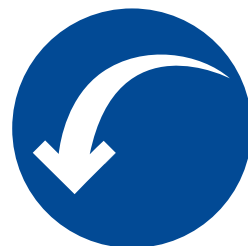
Low Energy



Efficiency



Low VOC



Key features and benefits

- ✓ Faster curing rates over conventional drying techniques
- ✓ Low thermal stressing on substrates
- ✓ Good adhesion to a wide range of substrates
- ✓ Low energy consumption
- ✓ High scratch and chemical resistance
- ✓ Reduces the use of volatile organic solvents

Energy Curable Resins and Additives

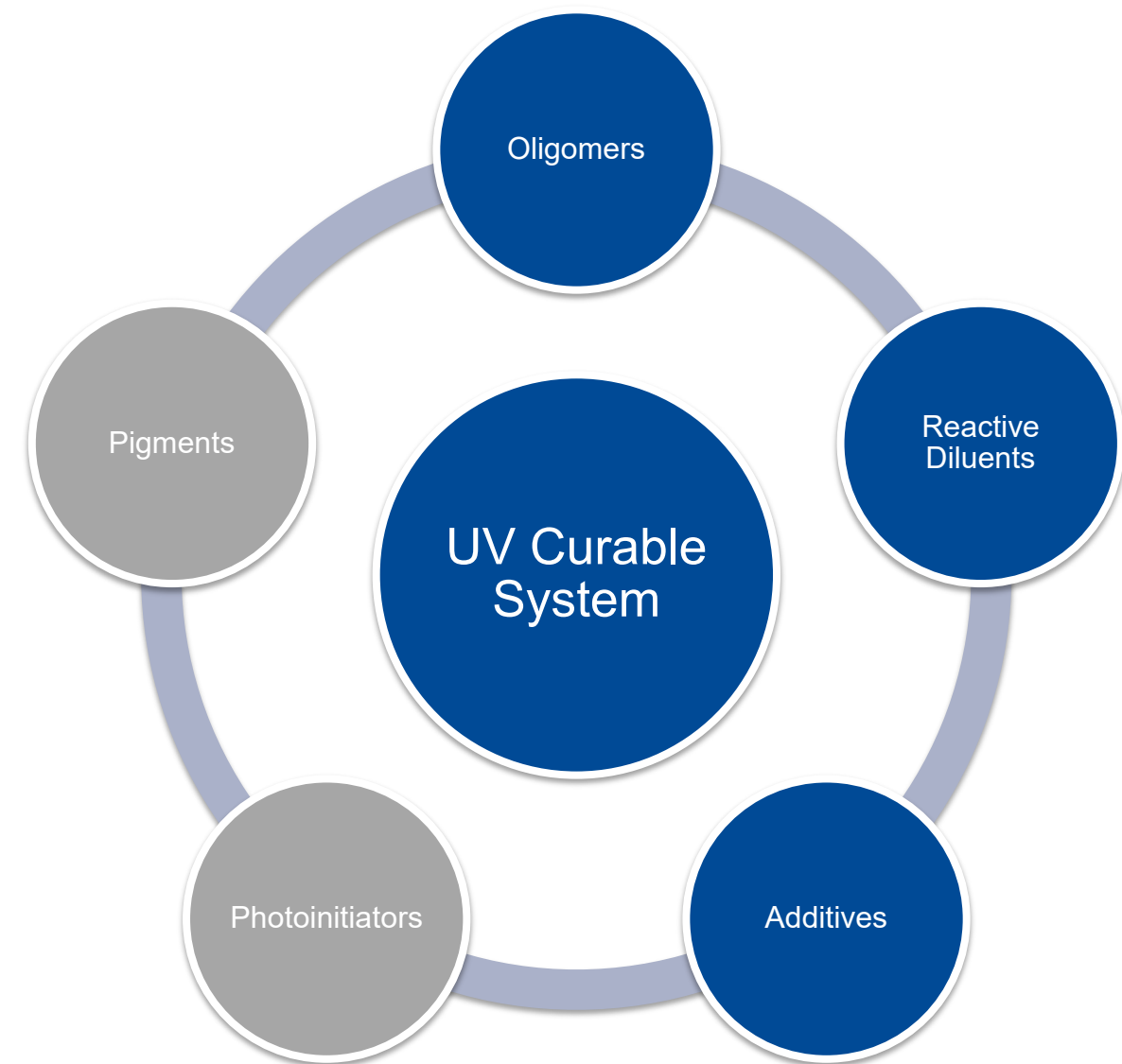
Resins: oligomers and reactive diluents

Additives: defoamers, dispersing agents, wetting agents, rheology modifiers and light stabilizers

Portfolio Summary

BASF offers a broad portfolio of high quality, high functionality oligomers, monomers and additives for a wide range of formulation requirements.

Oligomers, reactive diluents and additives are used in various applications and industries such as printing and packaging, adhesives, transportation and industrial coatings, furniture and flooring, electronics, and special applications.



Laromer® Urethane Acrylate

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations										
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion				
															Metal	Wood	Plastic	Paper	Glass
UA 19 T E	Highly elastic, low yellowing, good adhesion, flexibilizer	TPGDA (35%)	2.9	14,000 - 32,000	●●	●●●	●	●	✓	✓	✓	✓	✓	✓	◆	◆		◆	
UA 8987 E	Weather, chemical, scratch resistant	HDDA (30%)	2.4	4,000 - 6,000	●●●	●●	●●	●●●		✓	✓	✓	✓	✓	◆	◆		◆	
UA 9047 E	Scratch resistant, tack-free before UV, weathering res, functionality	BuAc (30%)	3.5	2,000 - 7,000	●●●	●●	●	●●●●			✓	✓			◆	◆			
UA 9048	Scratch and abrasion resistant, high functionality	DPGDA (25%)	7.5	10,000 - 20,000	●●●●	●	●●●	●●●●	✓	✓	✓	✓	✓		◆	◆			
UA 9072 E	Highly elastic, tear resistant, low yellowing, good adhesion	TBCH (30%)	2.9	2,000 - 15,000 (60° C)	●	●●●●	●	●●	✓	✓	✓	✓	✓	✓	◆	◆	◆	◆	◆
UA 9073*	Highly elastic, abrasion resis (falling sand) good adhesion	-	2.0	2,000 - 15,000 (60° C)	●●	●●●	●●	●●	✓	✓		✓	✓	✓	◆	◆	◆	◆	
UA 9089 E	High elasticity, excellent PVC adhesion and weathering resistant	-	2.0	10,000 - 30,000	●●	●●●	●●	●●	✓	✓		✓	✓	✓	◆	◆	◆	◆	
UA 9181 E*	Good adhesion to plastic, good toughness	DPGDA (40%)	2.1	1,000 - 2,500	●	●●●	●●	●●	✓	✓	✓	✓		✓	◆	◆	◆	◆	
UA 9186 E*	Very elastic, low yellowing, good adhesion, medium reactivity	CTFA (30%)	1.9	15,000 - 25,000	●	●●●●	●●●	●●	✓	✓	✓	✓	✓		◆	◆	◆		

*Aromatic

●●●●excellent ●●●good ●●medium ●low

Hardness vs. Flexibility

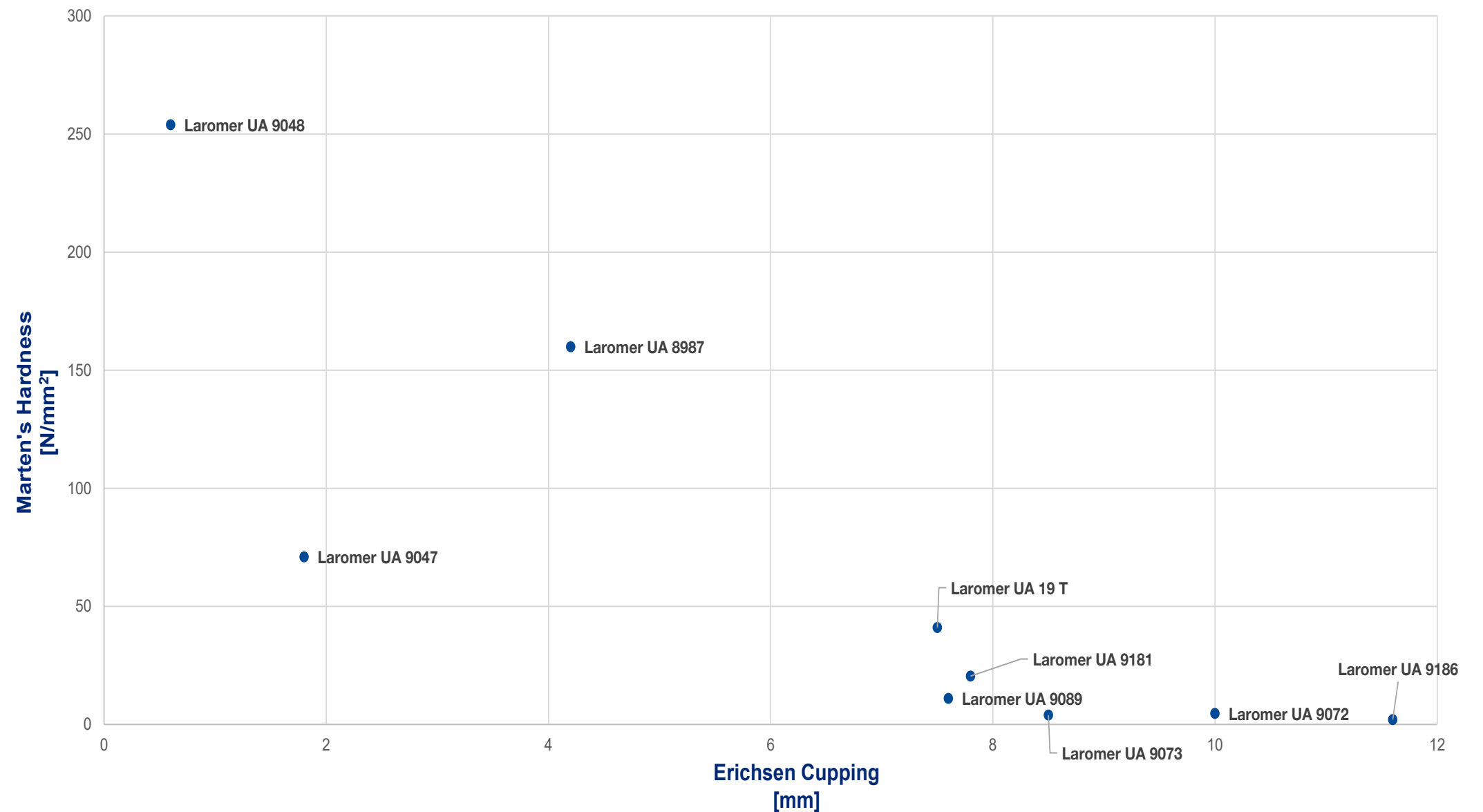
Graph represents Urethane Acrylate based products and demonstrates portfolio range of hardness development vs flexibility.

Marten's Hardness demonstrates surface hardness after cure.

Erichsen Cupping is a representation of flexibility in a cured film based on the defined product; shows maximum oligomer flexibility.

Highest Martens' Hardness is highest hardness and highest Erichsen Cupping is highest flexibility.

This demonstrates utility of Urethane Acrylate backbone to cover a broad range of applications.



Laromer® Epoxy Acrylate

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations										
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion				
															Metal	Wood	Plastic	Paper	Glass
EA 8765 R	Flexible, highly reactive, partially water soluble, BPA Free	-	2.0	600 - 1,500	●	●●●	●●●	●	✓	✓	✓	✓		✓	◆	◆		◆	
EA 9082 ECO	Outstanding chemical resistance, high hardness and reactivity, bio content 16%, BPA-free	TPGDA (30%)	2.0	6,000 - 9,000	●●●●	●●	●●	●●●●	✓	✓	✓			✓		◆		◆	
EA 9124	Excellent reactivity, high abrasion and chemical resis, good adhesion to plastic/metal	HDDA (20%)	2.0	7,000 - 15,000	●●●●	●	●●●	●●●●	✓	✓	✓	✓		✓	◆	◆	◆	◆	
EA 9138	Excellent reactivity, gloss, chemical resistance	TPGDA (25%)	2.0	10,000 - 20,000	●●●●	●●	●●	●●●●	✓	✓	✓	✓		✓	◆	◆		◆	
EA 9143 ECO	Good chemical resistance, excellent hardness	GPTA (25%)	2.3	35,000 - 55,000	●●●●	●●	●●●	●●●●	✓	✓	✓	✓		✓	◆	◆		◆	
EA 9145	Fast cure, excellent chemical resistance	DPGDA (30%)	2.0	4,000 - 7,000	●●●●	●●	●●	●●●●	✓	✓	✓	✓		✓	◆	◆		◆	
LR 8986 ECO	Low viscosity, good chemical resistance, high hardness	-	2.4	3,000 - 6,000	●●●●	●●●	●●	●●●●	✓	✓	✓	✓		✓	◆	◆	◆	◆	
LR 9019	Highly reactive, good chemical resistance, UV LED curing	-	2.4	12,000 - 20,000	●●●	●●●	●●●●	●●●●	✓	✓	✓	✓		✓	◆	◆		◆	
LR 9023	Diluted Version of LR 9019	DPGDA (15%)	2.4	2,000 - 5,000	●●●	●●	●●●	●●●●	✓	✓	✓	✓		✓	◆	◆		◆	

●●●●excellent ●●●good ●●medium ●low

Laromer® Polyester Acrylate

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations										
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion				
															Metal	Wood	Plastic	Paper	Glass
PE 44 F	Diluent-free, low viscosity & odor, flexible	-	3.0	2,000 - 5,000	●	●●●	●●	●●●	✓	✓	✓			✓		◆	◆	◆	
PE 55 F	Well-balanced, tough	-	3.1	25,000 - 45,000	●●	●●●	●●●	●●●	✓	✓	✓		✓		◆	◆	◆		
PE 56 F	Improved compatibility to RD	-	3.1	20,000 - 40,000	●●	●●●	●●●	●●●	✓	✓	✓		✓	✓	◆	◆	◆	◆	
PE 8800	Hard, chemical resistance, low odor	-	3.0	4,000 - 8,000	●●●	●●	●●	●●●●	✓	✓	✓	✓		✓	◆	◆	◆	◆	
PE 8981	Reactivity, sandability	-	3.0	4,000 - 14,000	●	●●●	●●●●	●●●	✓	✓	✓					◆	◆		
PE 9004	Tough, adhesion, chemical resistance	-	2.6	20,000 - 50,000	●●	●●●	●●●	●●●	✓	✓	✓			✓		◆	◆	◆	
PE 9074	Tough, adhesion, chemical resistance	-	3.2	7,000 - 13,000	●●	●●●	●●●	●●●	✓	✓	✓			✓		◆	◆	◆	
PE 9079	Higher viscous version of 9074	-	3.4	2,000 - 4,000 (60° C)	●●	●●●	●●●	●●●	✓	✓	✓			✓		◆	◆	◆	
PE 9084	Higher viscous version of 9074	-	3.3	16,000 - 24,000	●●	●●	●●	●●●	✓	✓	✓			✓		◆	◆	◆	

●●●●excellent ●●●good ●●medium ●low

Laromer® Unsaturated Polyester

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations										
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion				
															Metal	Wood	Plastic	Paper	Glass
UP 35 D	Easy to sand, hard and scratch-resistant	DPGDA (45%)	3.5	3,000 - 6,000	●●	●●●	●●	●●●	✓	✓	✓	✓				◆	◆		
UP 9096	Hard and scratch-resistant, good leveling, high gloss	GPTA (60%)	4.8	5,000 - 10,000	●●	●●	●●	●●●	✓	✓	✓	✓				◆	◆		
UP 9115	Balanced mechanical properties	TPGDA (38%)	2.5	13,000 - 19,000	●●	●●●	●●	●●●	✓	✓	✓	✓				◆	◆		
UP 9118	Hard, good chemical resistance	DPGDA/TMPTA (42%)	4.5	26,000 - 31,000	●●●	●	●●●	●●●	✓	✓						◆	◆		
UP 9178	Good sanding properties, excellent cost performance ratio, good leveling and adhesion on many substrates	DPGDA (24%)	2.8	20,000 - 35,000	●●	●●●	●●	●●●	✓	✓	✓	✓				◆	◆		

●●●●excellent ●●●good ●●medium ●low

Laromer® Performance Resins

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations											
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion					
															Metal	Wood	Plastic	Paper	Glass	
PR 9000	Contains NCO and UV reactive groups	-	2.0	1,000 - 1,400	●●●●	●	●●	●●●●			✓	✓	✓		◆					◆
PR 9013	Excellent pigment wetting, low shrinkage, high flexibility, good adhesion to plastic	-	1.5	45,000 - 70,000	●●●	●	●	●●	✓		✓	✓		✓	◆	◆	◆			
PR 9052	High hardness/scratch, best taber results when combined with aluminum oxide	TMPTA (60%)	6.0	4,000 - 8,000	●●●	●	●●	●●●		✓						◆				
PR 9058	Excellent pigment wetting, high filler acceptance, low viscosity	-	2.3	3,000 - 6,000	●●●	●●	●●●	●●●	✓	✓				✓		◆	◆	◆		
PR 9119	Performance alternative to BPA, all round resin, good reactivity, hardness and chemical resistance, easy to matte	TMPTA (62%)	5.5	5,000 - 9,000	●●●	●	●●	●●●	✓	✓						◆				

●●●●excellent ●●●good ●●medium ●low

Laromer® Polyether Acrylate and Amine Modified Polyether Acrylate

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations										
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion				
															Metal	Wood	Plastic	Paper	Glass
Polyether Acrylate																			
PO 33 F	Good hardness, solvent resistance, good cure speed	-	2.7	70 - 130	●●●	●	●	●●●	✓	✓	✓	✓	✓	✓	◆	◆	◆	◆	
PO 8967	Balanced property profile, low viscosity with good chemical resistance and medium reactivity and elasticity	-	2.6	120 - 190	●●●	●●	●●	●●●	✓			✓		✓	◆	◆	◆		
PO 8982	Partially water soluble (adjust spray viscosity)	-	2.7	150 - 300	●●	●●	●●	●●	✓	✓						◆			
PO 9026	High scratch resistance, silica modified product	-	1.5	600 - 1,500	●●●●	●	●●	●●●		✓			✓			◆	◆		
Amine Modified Polyether Acrylate																			
PO 77 F	All-round reactive resin, sandability	-	2.5	1,000 - 3,000	●	●●●	●●●	●●●	✓		✓		✓	✓	◆	◆	◆	◆	
PO 84 F	Good pigment wetting, film formation	-	2.6	400 - 700	●●	●●	●●●	●●●	✓		✓		✓	✓	◆	◆	◆	◆	
PO 94 F	Very good chemical resistance	-	2.6	300 - 500	●●	●●●	●●●●	●●●●	✓		✓		✓	✓	◆	◆	◆	◆	◆
PO 8996	Very low color and viscosity	-	2.6	50 - 90	●●	●●	●●●	●●●	✓		✓		✓	✓	◆	◆	◆	◆	
PO 8997	Highly reactive, very good in color	-	2.6	300 - 500	●●	●●	●●●●	●●●	✓		✓		✓	✓	◆	◆	◆	◆	
PO 9067	Outstanding reactivity, excellent film forming, high solvent resistance, bio-based content (C14)	-	2.6	400 - 700	●●	●●	●●●	●●●	✓		✓		✓	✓	◆	◆	◆	◆	
PO 9144	High reactivity, excellent film forming, high solvent resistance	-	2.6	100 - 200	●●●	●	●●●	●●●	✓		✓		✓	✓	◆	◆	◆	◆	

●●●●excellent ●●●good ●●medium ●low

Reactivity vs. Hardness

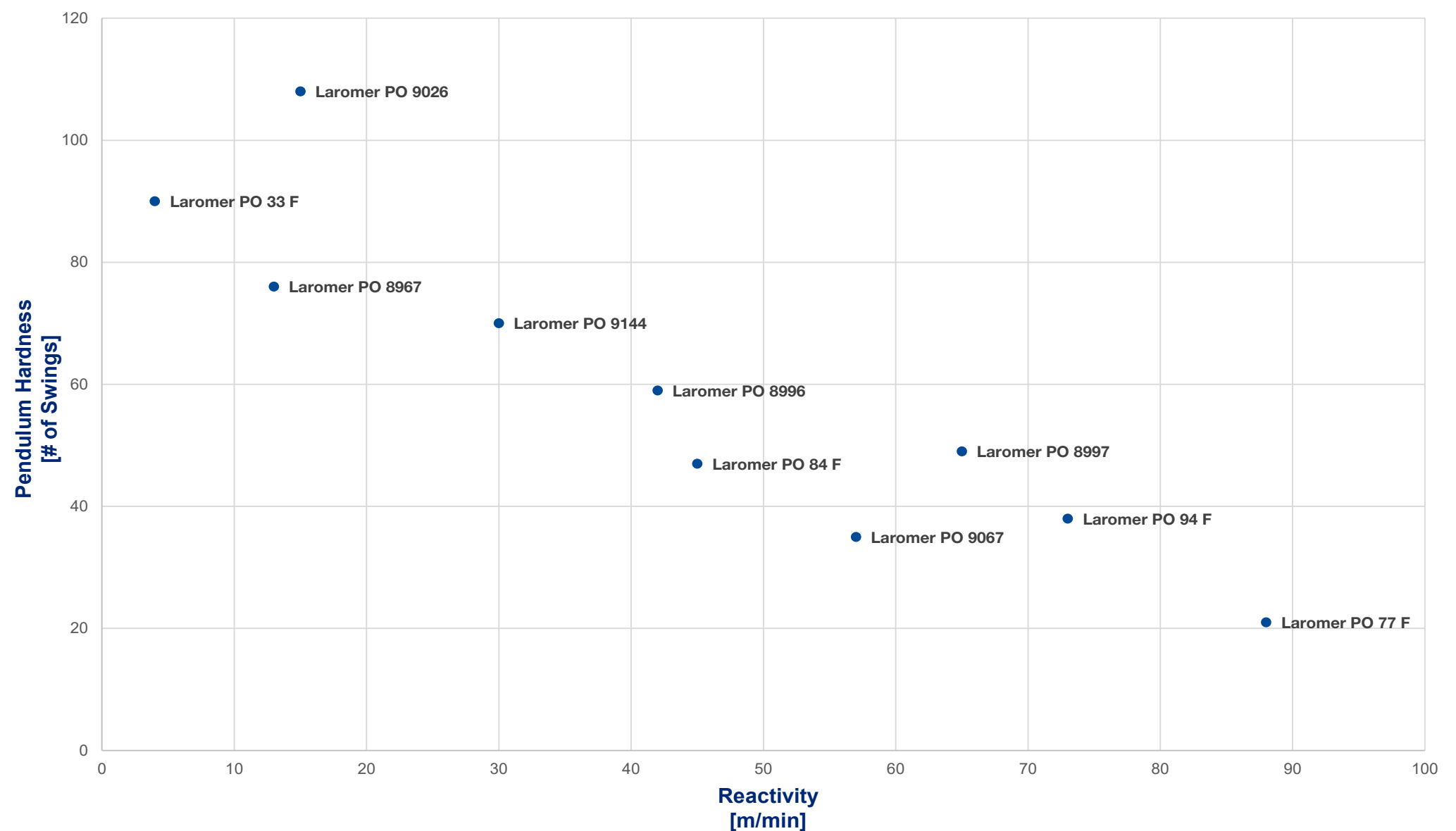
Graph represents Polyether and Modified Polyether Acrylate based products and demonstrates portfolio range of reactivity and relationship to ultimate hardness development.

Pendulum Hardness gives indication of the film hardness after cure.

Reactivity is measured in meters per minute, which indicates fast through put with highest reactivity.

Highest Pendulum Hardness is highest number of swings and highest reactivity is fastest throughput with highest reactivity. Performance of reactivity and hardness can be adjusted through blending of materials in final formulation.

Reactivity of 30 and higher are amine modified products. Amine modified products provide strong surface cure in multiple energy cure applications, including LED.



Laromer® Waterborne UV

Laromer	Key Performance	Diluent	Functionality	Viscosity (cps)	End Product Performance				Application Recommendations										
					Hardness	Elasticity	Reactivity	Chemical Resistance	Furniture	Flooring	Building Products	Industrial Metal	Transportation	Printing & Packaging	Adhesion				
															Metal	Wood	Plastic	Paper	Glass
PE 22 Aqua	Low yellowing, excellent chemical resistance, wood warmth	Water (50%)	2.2	50 - 500	••	••	••	••••	✓	✓	✓	✓			◆	◆	◆		
PE 55 Aqua	Good elasticity and toughness, wood warmth and grain enhancement	Water (50%)	2.2	250 - 650	••	•••	•••	•••	✓	✓	✓					◆	◆	◆	
UA 8983 Aqua	Dry-to-touch pre-cure, excellent elasticity, good chemical resistance	Water (60%)	1.6	50 - 300	••	••••	••	••	✓	✓	✓	✓		✓		◆	◆	◆	
UA 9005 Aqua ECO	Excellent hardness/scratch and chemical resistance, great physical drying	Water (60%)	5.2	20 - 250	••••	••	••	••••	✓	✓	✓			✓		◆	◆	◆	
UA 9095 Aqua	High grain enhancement, good hardness and chemical resistance, low yellowing	Water (60%)	2.2	50 - 500	••••	••	•••	•••	✓	✓		✓	✓	✓		◆	◆	◆	
UA 9059 Aqua	Excellent adhesion primer on wood, excellent flexibility and coin-test results	Water (30%)	1.8	6,000 - 11,000	•	••••	•••	•	✓	✓	✓			✓		◆	◆	◆	
UA 9122 Aqua	Fast physical drying, adhesion to PVC, abrasion and scratch resistance	Water (62%)	3.4	200 - 800	•	•••	•••	••	✓	✓	✓		✓	✓		◆	◆	◆	
UA 9135 Aqua	Great coffee resistance, viscosity stability, weatherability	Water (60%)	3.9	10 - 600	••••	••	••	••••	✓	✓	✓		✓	✓		◆	◆	◆	

••••excellent •••good ••medium •low

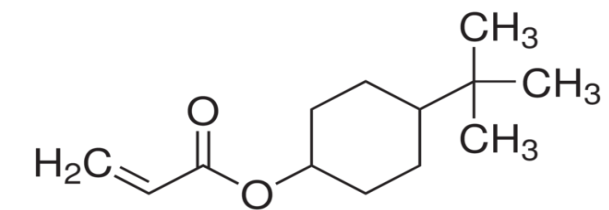
Laromer[®] Reactive Diluents

Laromer		Key Performance	Functionality	Viscosity (cps)	Application Recommendations										
					Furniture	Flooring	Building Products	Industrial Metal	Transportation	Offset Inks	Flexographic Inks	Screen Ink	Digital Ink	Overprint Varnish	
PPTTA	Tetrafunctional polyether acrylate	High cure speed for hard but flexible films, due to its fairly low shrinkage	4.0	~ 190	✓						✓	✓	✓	✓	✓
POEA	Phenoxyethyl acrylate	Excellent adhesion and pigment wetting	1.0	11				✓					✓		
TBCH	4-t-Butylcyclohexyl acrylate	High flexibility and good adhesion	1.0	9			✓	✓	✓		✓	✓	✓	✓	✓
DPGDA	Dipropylene glycol diacrylate	Excellent cutting power	2.0	8	✓	✓	✓	✓							
HDDA*	Hexanediol diacrylate	Excellent cutting power and adhesion	2.0	6	✓	✓	✓	✓	✓						
TPGDA	Tripropyleneglycol diacrylate	Good cutting power and reactivity	2.0	15	✓	✓	✓	✓							
GPTA	Propoxylated glycerol triacrylate	Outstanding ink/water balance, good balance hardness/flexibility, good cure speed, 13% C14 content	3.0	70 - 120	✓	✓	✓	✓	✓	✓	✓		✓	✓	
TMPTA*	Trimethylolpropane triacrylate	High cure speed, chemical resistance	3.0	100 - 150	✓	✓	✓	✓							
LR 8863*	Ethoxylated TMPTA	High cure speed, good blend hardness/flexibility	3.0	50 - 100	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓

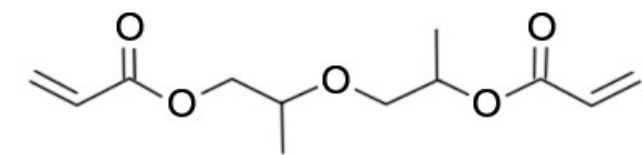
*Please consult with your local and regional regulations before use

Monomer Portfolio

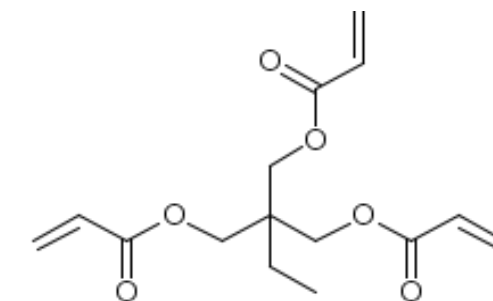
Property Functionality	Diluting Power	Reactivity	Conversion	Shrinkage	Flexibility
Mono	↑ +	↓ -	↑ +	↑ +	↑ +
Di	↑ +	↓ -	↑ +	↑ +	↑ +
Tri					
Tetra	↓ -	↑ +	↓ -	↓ -	↓ -



Mono (TBCH)



Di (DPGDA)



Tri (TMPTA)

■ Mono

- POEA
- TBCH

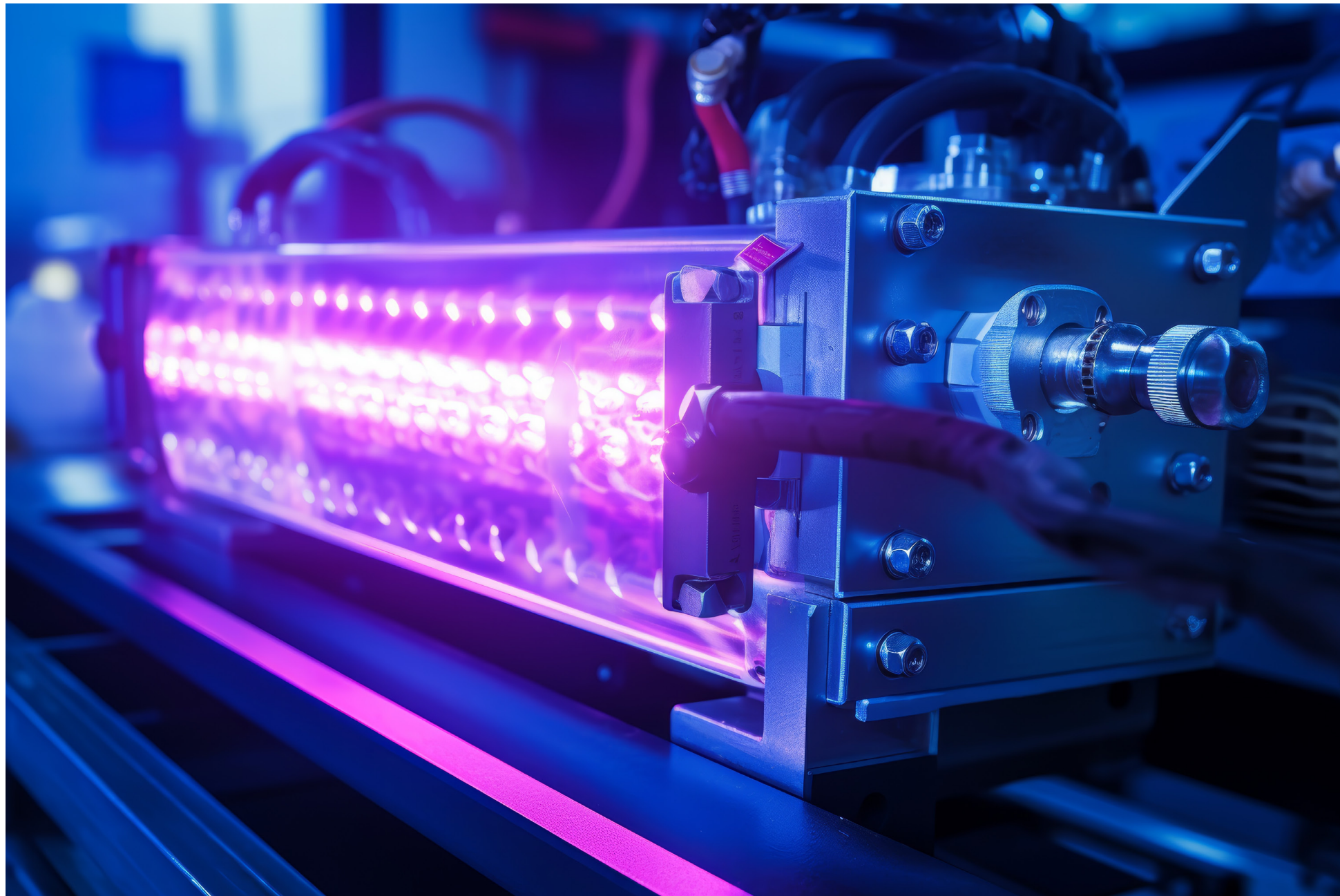
■ Di

- HDDA
- DPGDA
- TPGDA

■ Tri

- GPTA
- TMPTA
- LR 8863 (TMPEOTA)

Product Lines of UV Additives



1. Defoamers
2. Dispersing Agents
3. Wetting Agents
4. Rheology Modifiers
5. Light Stabilizers

Defoamers

Product Name	Product Description	Benefits	100% UV	WB UV	VOC Content %	Application Recommendations					
						Furniture	Flooring	Industrial	Automotive	Printing & Packaging	Adhesives
FoamStar® SI 2299	Modified polydimethylsiloxane based defoamers	Highly effective deaerator and defoamer for aqueous spray coating applications; effectively removes micro-foam from water-based spray coatings; remains persistent over longer storage periods; offers an outstanding combination of effectiveness and compatibility.		✓	< 0.1	•	•				
FoamStar SI 2292 NC	Modified polydimethylsiloxane based defoamers	Highly compatible silicone-based defoamer solution for high gloss paints and varnishes based on acrylics and polyurethane dispersions with minimized risk of cratering.		✓	90	•	•				
Efka® PB 2770	Silicone-free deaerator and defoamer	Silicone-free, 100% active deaerator and defoamer for UV-curable formulations, composites, gel coats, cast resins and adhesives with outstanding compatibility.	✓		< 0.1	•	•	•	•	•	
Efka SI 2041	Silicone defoamers	Highly efficient, more sustainable silicone defoamers for solvent-based systems.	✓		> 98%	•	•	•			
Efka SI 2042	Silicone defoamers	Highly efficient, more sustainable silicone defoamers for solvent-based systems.	✓		> 96%	•	•	•			
Efka SI 2751	Silicone defoamers	Highly efficient silicone defoamer for solvent-based systems.	✓		> 98%	•	•	•		•	•

*Our additive products show good adhesion to metal, wood, plastic, paper and glass, please consult with our technical experts on your application

Dispersing Agents

Product Name	Product Description	Benefits	100% UV	WB UV	VOC Content %	Application Recommendations					
						Furniture	Flooring	Industrial	Automotive	Printing & Packaging	Adhesives
Dispex® Ultra PX 4585	Acrylic block copolymer made by controlled free radical polymerization (CFRP)	Best-in-class for high-jetness application and enhanced coloristics for industrial and automotive coatings; broad binder compatibility.		✓	< 0.1	•	•	•	•	•	
Dispex Ultra FA 4431	Aliphatic polyether with acidic groups	Dispersing agent for inorganic pigments and fillers for decorative and industrial coatings.	✓	✓	< 0.1	•	•	•	•		
Dispex Ultra FA 4420	Fatty acid modified emulsifier (FAME)	Universal dispersing agent; also suitable as co-dispersant; improves compatibility and color acceptance in basepaints.		✓	< 1	•	•				•
Efka® PX 4701	Acrylic block copolymer made by controlled free radical polymerization (CFRP)	For high-performance pigments, suitable for energy-curable systems and solvent-based applications.	✓	✓	< 2.5	•	•	•	•	•	
Efka PX 4703	Acrylic block copolymer made by controlled free radical polymerization (CFRP)	For UV-curable and mild-solvent ink-jet systems, including UV-curable flexographic-, litho- and screen inks.	✓		< 2.5	•	•			•	
Efka PX 4733	Advanced polymer	Suitable for energy-curable and solvent-based systems; broad pigment affinity, including matting agents.	✓		< 2.5	•	•			•	

*Our additive products show good adhesion to metal, wood, plastic, paper and glass, please consult with our technical experts on your application

Light Stabilizers

Product Name	Product Description	Benefits	100% UV	WB UV	VOC Content %	Application Recommendations					
						Furniture	Flooring	Industrial	Automotive	Printing & Packaging	Adhesives
Lignostab® 530	Tetramethylhydroxypiperidinol citrate in water	Lignin stabilizer solution for wood impregnation without imparting initial wood color; prevents darkening of pale wood caused by UV-light induced photo-oxidation of the lignin. No severe labeling and not CMR substance.		✓	0	•	•				
Tinuvin® DW ECO	Our most recent generation of highly efficient light stabilizers	Suited for water-based coatings, adhesives and sealants, this upgraded grade combines the outstanding protection properties of the Tinuvin® DW series with today's eco-friendly needs.		✓	< 0.1	•	•	•	•	•	•
Tinuvin 1130	Benzotriazole (BTZ)	UVA for medium performance coatings, requires predissolution in cosolvent.	✓	✓	< 0.1	•	•	•	•	•	•
Tinuvin 292	N-alkyl HALS	Multipurpose basic HALS for various applications, use in waterbased coatings may require addition of cosolvents, may interact with sensitive dispersion binders.	✓	✓	< 0.1	•	•	•	•	•	•
Tinuvin 400	Hydroxyphenyltriazine (HPT)	Blue shifted UVA for high durability coatings including UV curing systems, excellent spectral coverage in combination with Tinuvin 477 or with Tinuvin 479.	✓		15	•	•	•	•	•	
Tinuvin 249	Non-basic HALS	Non-basic HALS, no exudation from solvent-based polar coatings, low viscosity and very low inherent color; use in water-based coatings may require addition of cosolvents.	✓		0	•	•	•	•	•	•
Tinuvin 477	Trisresorcinyltriazine (TRT)	Red shifted UVA, for high durability wood coating requirements, allows <1% transmittance up to 370nm.	✓		20	•	•	•			
Tinuvin 479	Hydroxyphenyltriazine (HPT)	UVA with extremely high extinction coefficient specifically suited for thin film applications; for highest durability requirements; suitable for powder coatings and UV curing systems.	✓		< 0.1			•	•		
Tinuvin 5151	UVA/ N-alkyl HALS	UVA / HALS blend for solvent-based medium performance coatings.	✓		< 0.1	•	•	•			
Tinuvin 99-2	Benzotriazole (BTZ)	Industrial grade liquid hydrophenyl-benzotriazole UVA for medium performance coatings, offers excellent spectral coverage in the UV region.	✓		5	•	•	•		•	
Tinuvin 5070	UVA / Non-basic HALS	UVA / non-basic HALS blend, low color for solvent-based applications, enabling label-free alternative to Tinuvin® 5050.	✓		< 0.1	•	•	•	•		•
Tinuvin 123	N-OR HALS	Non-basic HALS for acid catalyzed and oxidative curing coatings, improves yellowing resistance in direct-fired gas ovens.	✓		< 0.1	•	•	•	•	•	•

*Our additive products show good adhesion to metal, wood, plastic, paper and glass, please consult with our technical experts on your application

Rheology Modifiers and Wetting Agents

Product Name	Product Description	Benefits	100% UV	WB UV	VOC Content %	Application Recommendations					
						Furniture	Flooring	Industrial	Automotive	Printing & Packaging	Adhesives
Rheology Modifiers											
Efka® RM 1900	Modified hydrogenated castor oil	Provides excellent sag resistance for non-aqueous formulations; higher temperature stability.	✓		< 0.1	•	•				
Efka RM 1920	Hydrogenated castor oil	Provides excellent sag resistance for non-aqueous formulations; standard thixotropy.	✓		< 0.1	•	•			•	
Rheovis® PU 1250 EC	Associative thickener: hydrophobic modified ethoxylated urethane (HEUR)	Mid-shear thickener; medium pseudoplastic; provides excellent orientation of effect pigments.		✓	20	•	•				
Wetting Agents											
Efka FL 3740 EH	Copolyacrylates	Silicone-free flow and leveling agent with air-release properties for solvent-based, solvent free and powder coatings system.	✓		< 0.5	•	•	•			
Efka FL 3750	Polyacrylate	100% version of Efka FL 3755; suitable for solvent and solvent-free application.	✓		< 1	•	•		•		
Efka SL 3299	Modified polysiloxanes	Hydroxy-functional silicone with strong and sustained slip effect for improved scratch resistance.	✓		< 1	•		•	•		
Efka SL 3883	Reactive polysiloxanes	Polysiloxane-modified with unsaturated terminal groups; enhances scratch resistance in UV-curable systems for wood, plastic and paper coatings.	✓		< 1	•	•			•	
Hydropalat® SL 3682	Aqueous dispersion of an ultra-high molecular weight silicone	Highly effective slip and anti-blocking additive. It is suitable for aqueous paint, coating and ink formulations to provide slip, mar resistance and anti-blocking properties.		✓	< 1	•	•				
Hydropalat WE 3220	Silicone surfactants	Excellent for color development / acceptance and improved substrate wetting; suitable for binder stabilization; HLB ~14.		✓	~12.5	•	•	•			
Hydropalat WE 3225	Silicone surfactants	Silicone-based wetting agent with pronounced defoaming action for all kinds of aqueous coating formulations; combines excellent compatibility and wetting action with defoaming properties.		✓	~7			•	•	•	

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We create chemistry

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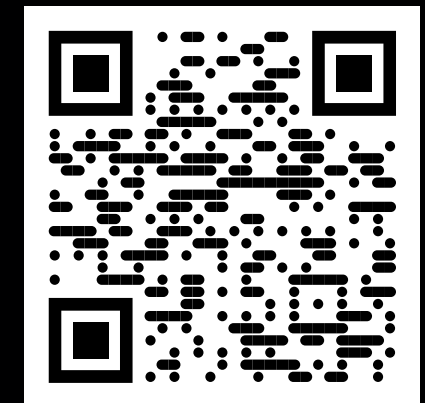
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