

Resins for coatings applications **EMEAI**



Solvent-based resins for coatings EMEAI





Product	Chemistry Type	Specific Gravity	Tg (°C) Onset	KB Value	Key Features	Primer	Exterior	Interior	Floor	Roof	Swimming Pool	Direct-to-Metal	Intumescent	Traffic / Road
PLIOLITE® AC4/AC5G	Styrene Acrylic	1.03	55/52	45	Rheological thermoplastic resins. Can be used with AC80 for masonry coatings, structural steel and intumescent coatings.	x	x		0	x	x	x	x	
PLIOLITE AC80	Styrene Acrylic	1.03	54	40	Excellent exterior weathering and adhesion.		x		x	x	x	x	X	0
PLIOLITE AC90	Styrene Acrylic	1.03	51	40	Excellent char development and lowered onset degradation temperature, suitable for the formulation of enhanced R30 and R60 rated intumescent coatings.								x	
PLIOLITE LV 72	Styrene Acrylic	1.04	54	36	Low viscosity, excellent adhesion. Can be used in swimming pool paints and as a chlorinated rubber replacement.						х		x	
PLIOLITE S5E	Styrene Butadiene	1.05	57	60	Forms tough, durable films with excellent chemical and abrasion resistance. Excellent alkali resistance.								x	0
PLIOLITE AC3-H	Vinyl Toluene Acrylic	1.03	61	36	Rheological resin compatible with VTAC-L.		x						x	
PLIOLITE VTAC/VTAC-L	Vinyl Toluene Acrylic	1.03	61	36	Recommended applications include intumescent paints and masonry coatings. Exhibits good adhesion to concrete and good humidity resistance.		X				X		x	
PLIOLITE VTAC-H	Vinyl Toluene Acrylic	1.03	61	36	High molecular weight, high viscosity resin ideal for multicolor paints.		X	X						

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PLIOWAY® EC1	Vinyl Acrylic	1.03	56	31	Used in low odor interior coatings, stain blocking paints and correction fluids.	x		x					X	
PLIOWAY ECT	Vinyl Acrylic	1.03	56	32	Rheological copolymer resin used with EC1.	x		x					x	
PLIOWAY Ultra 200	Vinyl Acrylic	1.03	57	28	Soluble in odorless isoparaffinic solvents. For odorless interior paints, stain sealing primers, correction fluids and intumescent coatings.	x		x					X	
PLIOWAY Ultra 350LV	Vinyl Acrylic	1.03	49	28	Soluble in odorless isoparaffinic solvents. Low viscosity resin used in high solids odorless primers and intumescent coatings.	x		x					x	
PLIOWAY Ultra G20	Vinyl Acrylic	1.03	60	28	Rheological resin, soluble in odorless solvents, compatible with Ultra 200 and Ultra 350LV.	x		x					X	

x Main application 0 Possible application

Revision Date: 12-Mar-21

Solvent-based resins for coatings





Product	Chemistry Type	Polymer Content (%)	Viscosity Gardner (St)	Acid Value (mg KOH/g sol)	Color Index Iodine	Key Features	Primer	Exterior	Interior	Floor	Roof	Swimming Pool	Direct-to-Metal	Intumescent	Traffic / Road
PLIOCRYL™ 4526	Orthophthalic Unsaturated Polyester	42% in Acrylates	0.062 - 0.140	≤ 25	≤ 10	Developed for traffic marking, especially for pedestrian crossing. Provides good balance of flexibility and hardness after curing as well as weather and abrasion resistances. Pre-accelerated and diluted in acrylic solvents.									x
PLIOCRYL 4600	Styrene Acrylic	50% in Toluene	8.84 - 12.9	≤ 10	≤ 1	Provides extremely fast drying, high hardness and good water resistance properties. Good solubility in aromatic solvents, esters and ketones. Recommended for traffic marking paints.				0					x
PLIOCRYL 4660	Styrene Acrylic	60% in Toluene and Xylene	63.4 - 123	≤ 13	≤ 1	Fast drying, good mechanical properties and good resistance to water. Good solubility in aromatic solvents, esters and ketones. Recommended for swimming pools paints.				x		x			0
PLIOCRYL 4670	Styrene Acrylic	50% in Xylene	22.0 - 36.2	≤ 10	≤ 1	Fast drying, excellent mechanical proprieties and good resistance to water. Good solubility in aromatic solvents, as well as esters and ketones. Recommended for traffic marking paints.				X					X
PLIOCRYL 4728	Acrylic	50% in Xylene	36.2 - 63.4	≤ 10	≤ 1	Fast drying, high resistance to yellowing and UV, as well as good water and alkalinity resistance. Recommended for the formulation of pavement and building façades coatings as well as traffic marking and swimming pools paints.		0		X		x			0

X Main application **0** Possible application

NOTE: Although the data supplied above is believed to be accurate, each user is advised to make an independent determination as to whether the described product(s) is/are appropriate for a particular use or application, whether such use will comply with all applicable laws or regulations, or whether such use will infringe the intellectual property rights of third parties.



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Revision Date: 12-Mar-21 Page 3 of 5

Solvent-based resins for coatings





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	Product	Chemistry Type	Oil/Fatty Acid Type	Oil Content (%)	Delivery Form (Solids /Solvent)	Viscosity Gardner (St)	Acid Value (mg KOH/g sol)	Gardner Color Index	Key Features	Enamels	Varnishes	Undercoats	Primers	Enamels	Automotive Repair	Furniture	Marine
	PLIOLAK™ AM342	Alkyd, Phenolic and Rosin Modified	Linseed / Wood	35	50% / Xylene	12.9 - 18.7	≤ 30	≤ 10	Fast-drying, good metal adhesion and good resistance to chemicals. Recommended for spray or brush-applied primers. Suitable to formulate color enamels for agricultural machinery and hammer finishes with good drawn, gloss and applicability on vertical surfaces.				x	x	0		
- to	PLIOLAK AS284	Alkyd	Soya-bean	22	60% / Xylene	17.6 - 27.0	≤ 15	≤ 6	Fast-drying, high gloss, excellent resistance to yellowing as well as outstanding adhesion properties and good mechanical properties. Highly versatile binder, recommended for a wide range of applications: Air-drying and stoving enamels, bitumens and anti-corrosive primers, nitrocellulose enamels, acid curing lacquers, 2K clear topcoats for wood furniture (in combination with isocyanates).				0	x	x	0	
	PLIOLAK AV303	Styrene- modified Alkyd	-	30	60% / Xylene	22.0 - 36.2	≤ 10	≤ 6	Extremely fast drying even in unfavorable climatic conditions. Recommended for fast air-drying enamels for metal surfaces and ideal for hammer finishes.					х			
	PLIOLAK AF522	Alkyd	Vegetable	52	60% / Dearomatized White Spirit	36.2 - 63.4	≤ 12	≤ 10	Excellent drying, high hardness, good applicability, yellowing and weather resistance, resistance to heat, maintaining brightness and flexibility. Recommended use with PLIOLAK AF 704 for decorative applications. VOC 2010 compliant and as a sole binder for industrial applications.	x	x	0	0	0			
7	PLIOLAK AU520	Urethane Alkyd	Vegetable	52	60% / Dearomatized White Spirit	46.3 - 63.4	≤ 10	≤ 7	Good anticorrosive properties and good adhesion onto ferrous substrates, besides high gloss. Suitable for DTM paints, used in combination with a long-oil alkyd resin to improve flexibility.	0	0			x			
	PLIOLAK AF704	High solids Alkyd	Vegetable	70	85% / Dearomatized White Spirit	36.2 - 46.3	≤ 10	≤ 8	Good applicability and excellent complete-drying properties, as well as high gloss, hardness and color retention. Recommended as a sole binder or in combination with PLIOLAK AF 522 for high solids enamels and varnishes, 2010 VOC compliant.	x	x						
-	PLIOLAK AH832	High solids Alkyd	Vegetable	83	approx. 100%	17.6 - 27.0	≤ 10	≤ 8	100% solids and low viscosity to be used in combination with other resins for high solids enamels and varnishes, VOC 2010 compliant. Compatible with long-oil alkyd resins. Compatibility with medium-oil alkyd resins must be tested individually.	x	x						
	PLIOLAK AS652	Alkyd	Soya-bean	65	75% / Dearomatized White Spirit	5000 - 7000*	≤ 10	≤ 6	Good drying time, wrinkling resistance and weathering resistance, with good gloss and color retention. Suitable for enamels and varnishes, VOC 2010 compliant, with water incorporation.	X	x						
	PLIOLAK AU620	Urethane Alkyd	Vegetable	62	60% / Dearomatized White Spirit	36.2 - 63.4	≤ 10	≤ 8	Improved drying time and hardness, high resistance to abrasion and saponification. Suitable for high solids enamels and varnishes, VOC 2010 compliant, in combination with other resin, as well as marine coatings and the protection/decoration of soil cement.	x	x						0

^{*} Brookfield Viscosity (mPa.s) (23° C - S5; 50 rpm).

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Page 4 of 5 Revision Date: 12-Mar-21



Leading in emulsions and speciality polymers

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North America and Asia, and expands our global platform. Synthomer is able to serve through a strong network of local technical service and sales branches, supported by regional application development and production in our key markets. We deliver the right formula, globally, individually.

speciality chemical company. The acquisition of this highly com-

plementary business extends our geographic reach, particularly in

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Revision Date: 12-Mar-21 Page 5 of 5