



WATER-BASED RESINS FOR COATINGS

EMEA1

Product	Chemistry Type	Total Solids (%)	APE Free	Tg (°C) Onset	pH	Key Features	Primer	Exterior	Interior	Floor	Roof	Swimming Pool	Direct-to-Metal	Intumescent
Hydro PLIOLITE® 211	Styrene Acrylic	50	●	29	8.0-9.0	Copolymer designed for high-performance waterborne intumescent coatings (R30 to R120) for indoor or outdoor exposure.								X
Hydro PLIOLITE 010	Modified Acrylic	40	●	25	7.0	Emulsified binding system allows excellent penetration to porous masonry substrates and outstanding exterior weathering.	X	X	O					
Hydro PLIOLITE 050	Acrylic	40	●	NA	6.5	Amphoteric binding system (polymer with anionic and cationic groups) that has outstanding stain-blocking properties and provides excellent adhesion to a wide variety of substrates. Recommended for low VOC stain-blocking multi-purpose coatings.	X		X					
PLIOTEC® 119	Vinyl Acetate/ Versatate	50	●	27	3.5 - 4.5	Copolymer dispersion designed for a use in high performance intumescent paints. Provides excellent fire resistance and char thickness.								X
PLIOTEC 7104 E	Styrene Acrylic	45	●	51	8.8 - 9.8	Forms resistant films with excellent adhesion to concrete.	X			X		X		
PLIOTEC CR78	Acrylic	41	●	38	8.0 - 9.0	Latex used in garage floor paints that have excellent chemical and hot-tire resistance. Typical applications include garage floor paints, basement and laundry room floor paints.				X				
PLIOTEC HDT 16	Modified Acrylic	50	●	52	8.0 - 9.0	Excellent adhesion to a wide variety of substrates. Excellent water resistance. Fast hardness development.	X	X	X	X	O		X	
PLIOTEC HDT 12	Modified Acrylic	50	●	28	7.5 - 8.5	Excellent adhesion to ferrous and non ferrous metals. Outstanding water resistance in low VOC formulations.	X	X	X		X		X	
PLIOTEC LEB 18	Styrene Acrylic	42.5	●	12	8.5 - 9.5	Latex designed for a use in chemical and hot-tire resistant paints. Typical application include garage floor paints, basement and laundry room floor paints	X	X						
PLIOTEC LEB 20	Acrylic	45	●	19	8.0 - 9.0	Low Exudation Binder technology that ensures superior resistance to exudation and efflorescence. Excellent color retention associated to strong early rain resistance and superior dirt-pick-up	X	X	O					
PLIOTEC PA05	Acrylic	48	●	48	8.0 - 9.0	For high performance concrete sealers, floor paints, pigmented masonry coatings, roof tile coatings and more.		X		X	X	X		
PLIOTEC PA90 MT	Acrylic	48	●	25	8.0 - 9.0	For high performance concrete sealers, floor paints, pigmented masonry coatings, vertical clear coatings and other specialty applications.	X	X		X	X	X		
PLIOTEC SA40	Styrene Acrylic	48	●	33	7.5 - 8.5	For low VOC coatings that are tough, flexible and abrasion resistant. Outstanding efflorescence and alkali resistant on fresh concrete.	X							

X Main application O Possible application

Product	Chemistry Type	Total Solids (%)	APE Free	Tg (°C) Onset	pH	Key Features	Primer	Exterior	Interior	Floor	Roof	Swimming Pool	Direct-to-Metal	Intumescent
PLIODISP™ 7215	Vinyl Acetate/ Versatate	55	●	30	4.0 - 5.0	Good overall performance for interior, semi-gloss and textured paints. Exhibits good brushability, open time and levelling, as well as good mud-cracking and thermal mechanical resistance.		○	×					
PLIODISP 7252	Vinyl Acetate/ Versatate	51	●	34	5.5-6.5	Major features include excellent binding power and good water, alkali and weathering resistance. A versatile binder across a large PVC range suitable for interior and exterior paints applications.		×	○					
PLIODISP 7600	Styrene Acrylic	50	●	-6	7.0 - 8.0	Exhibits high elongation at break, low water uptake and effective water impermeability. Recommended for elastomeric roof coatings.		×			×			
PLIODISP 7670	Styrene Acrylic	34	●	-12	7.5 - 9.0	Nanolatex binder with correct balance between penetrating and consolidating properties, especially for old and chalky substrates. Its versatility allows the use of a wide range type of topcoats.	×							
PLIODISP 7693	Styrene Acrylic	50	●	25	7.5 - 9.0	Versatile binder suitable for cost/effective high PVC paints, including 100% ammonia-free. Major features include superior binding power.		○	×					
PLIODISP 7730	Acrylic	55	●	-13	7.5 - 9.0	Used in elastomeric wall and roof coatings with excellent aging behavior. Exhibits low water uptake, alkali resistance and high elongation even in negative temperature.		×			×			
PLIODISP 7735	Acrylic	64	●	-34	7.0 - 8.0	Pure acrylic binder, especially designed for elastomeric façades coatings, including anticarbonation coatings on reinforced concrete. Exhibits good elasticity properties at low temperatures before and after exterior exposure, as well as excellent dirt pick-up.		×			○			
PLIODISP 7776	Acrylic	46	●	20	7.5 - 9.0	Suitable for exterior paints for façades. Major features are good exterior durability (color retention for deep shade paints) and snail trail resistance.	○	×	○					
PLIODISP 7788	Acrylic	50	●	10	7.5 - 9.0	Allows the formulation of façade and wall paints with low VOC emissions. Main features includes good binding power and exterior durability.		×	○					

× Main application ○ 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.



Americas

World Headquarters
25435 Harvard Road
Beachwood, OH 44122 USA
Phone: +216-682-7000
Fax: +1 216-453-0108
Cust. Svc: +1 888-253-5454
Email: pccustserv@omnova.com

Europe / Middle East / Africa / India

14 avenue des Tropiques
Z.A. de Courtaboeuf 2 Villejust
91955 Courtaboeuf Cedex-France
Phone: +33-1-69-29-27-00
Fax: +33-1-69-29-27-01

Asia

Unit 01-03, 8th Floor
Building A, SCG Huihao Tower
Shanghai 200235, China
Phone: +011 (86) 21 6473-2525
Fax: +011 (86) 21 5421-1766



SOLVENT-BASED RESINS FOR COATINGS
EMEA1

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		O	X	X	X	X	
PLIOLITE AC80	Styrene Acrylic	1.03	54	40	Excellent exterior weathering and adhesion.	X	X		X	X	X	X	X	O
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 Ultra 100	Styrene Acrylic	1.02	61	31	Used in clear and pigmented surface conditioners, flat and textured masonry paints, anti-carbonation coatings for concrete protection and flat and high build waterproofing sealers, especially in deaerated solvents (low odor).	X	X		O			X	X	
PLIOLITE LV 72	Acrylic	1.04	54	36	Low viscosity, excellent adhesion. Can be used in swimming pool paints and as a chlorinated rubber replacement.						X		X	
PLIOLITE S5E	Styrene Butadiene	1.05	57	60	Forms tough, durable films with excellent chemical and abrasion resistance. Excellent alkali resistance.	X							X	O
PLIOLITE AC3-H	Vinyl Toluene Acrylic	1.03	61	36	Rheological resin compatible with VTAC-L.	X	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		X	
PLIOLITE VTAC-H	Vinyl Toluene Acrylic	1.03	61	36	High molecular weight, high viscosity resin ideal for multicolor paints.		X	X						

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
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 O Possible application

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.				O						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				O
PLIOCRYL 4670	Styrene Acrylic	50% in Xylene	22.0 - 36.2	≤ 10	≤ 1	Fast drying, excellent mechanical properties 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.		O		X		X				O

* Gardner Color Index

X Main application O 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.



Americas

World Headquarters
25435 Harvard Road
Beachwood, OH 44122 USA
Phone: +216-682-7000
Fax: +1 216-453-0108
Cust. Svc: +1 888-253-5454
Email: pccustserv@omnova.com

Europe / Middle East / Africa / India

14 avenue des Tropiques
Z.A. de Courtaboeuf 2 Villejust
91955 Courtaboeuf Cedex-France
Phone: +33-1-69-29-27-00
Fax: +33-1-69-29-27-01

Asia

Unit 01-03, 8th Floor
Building A, SCG Huihao Tower
Shanghai 200235, China
Phone: +011 (86) 21 6473-2525
Fax: +011 (86) 21 5421-1766

	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
Short-oil	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	O		
	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).				O	X	X	O	
	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.					X			
Medium-oil	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	O	O	O			
	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.	O	O			X			
Long-oil	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						O

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

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.

X Main application O Possible application