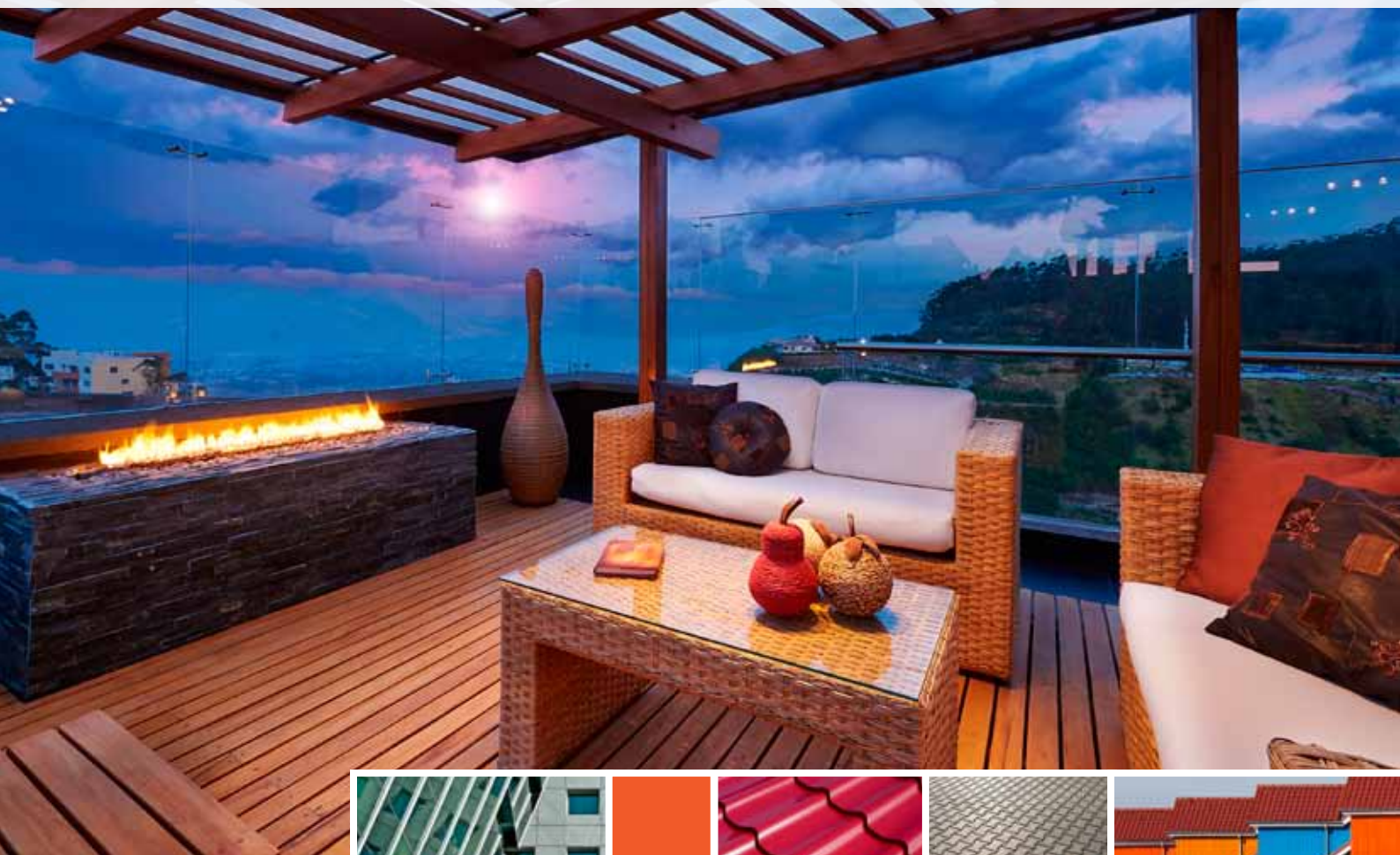


ARCHITECTURAL COATINGS

Waterborne and Solventborne Resins



FACTS & FIGURES



With manufacturing, R&D and technical facilities located throughout Europe, North America, Asia Pacific and Latin America, Allnex offers global and reliable supply of resins and additives combined with local, responsive customer support.

About us

- Global company with nearly \$1.5 billion in sales
- Resin portfolio comprised of more than 80% solvent-free and water-based products
- Broad Technology portfolio: liquid coating resins, energy curable resins, powder coating resins, crosslinkers and additives.
- Approximately 2000 employees
- More than 2500 customers
- 16 manufacturing facilities
- 13 research and technology centers
- 2 joint ventures
- A myriad of solutions for key coating segments: automotive, industrial, packaging coating and inks, protective, industrial plastics and specialty architectural

Table of contents

About us	2
Waterborne Resins	
Concrete Coatings - 1K and 2K	4
Roofing Coatings	6
Stains	7
Stain Blocking Primers	7
Specialties	8
Trim Enamel	9
Wood Flooring	10
Solventborne Resins	11



Concrete Coatings - 1K and 2K

1K Systems

Product	Technology	Features	MFFT °C	Solids Content %
DAOTAN™ TW 6474	<i>Aliphatic Polyurethane - acrylic hybrid, self crosslinking</i>	Quick hardness development, high abrasion resistance and early hot tire resistance. Also a good blending resin for acrylic emulsions.	+17	37
UCECRYL™ B 1181	<i>Acrylic copolymer emulsion</i>	Efflorescence resistance and excellent against blocking with very low water uptake and can be used on fresh concrete	+2	48
UCECRYL™ B 3025	<i>Styrene acrylic emulsion polymer</i>	1K garage flooring with good dirt pick up and abrasion resistance.	+55	49



Concrete Primer or Topcoat 2K Epoxy (Epoxy + Hardener)

Product	Technology	Features	Equivalent Weight on Solid	Solids Content %
BECKOPOX™ EH 613w	<i>Aliphatic polyamine adduct</i>	High reactivity, 1.5 hrs pot life with very high chemical resistance.	116	80
BECKOPOX EH 623w	<i>Aliphatic polyamine adduct</i>	Medium reactivity with long pot life (4hrs) and excellent chemical resistance.	160	80
BECKOPOX EP 122w BECKOPOX EP 147w	<i>Bis-A/F liquid epoxy modified and water reducible</i>	Provides improvement in chemical resistance and hardness. BECKOPOX EP 122w and BECKOPOX EP 147w can be used alone or in combination with a solid epoxy dispersion. Can be used in formulations requiring <100g/l. Excellent chemical and hot tire resistance. Can be used in epoxy cement formulations.	190 - 200 188 - 200	100
BECKOPOX EP 2340w	<i>Modified liquid epoxy dispersion</i>	Good drying at lower temperature and elevated humidity. Provides good penetration to porous substrates and easy to apply. Can be formulated as the sole binder or together with solid EP-dispersion to improve hardness and adhesion to porous substrates.	220 - 260	56
BECKOPOX EP 2350w	<i>Solid epoxy dispersion</i>	Excellent penetration into porous substrates. Great chemical resistance. Formulation at <100g/l possible. Excellent chemical and hot tire resistance. Low viscosity, easy to formulate and penetrates into porous substrates.	300 - 400	60
BECKOPOX EP 2384w	<i>Solid epoxy dispersion</i>	VOC and benzyl alcohol free resin providing fast drying, improvement in recoat time and good chemical resistance. Formulation at <50g/l and HAPS free possible. No need to sacrifice critical properties while formulating at <50g/l. Good chemical and hot tire resistance. Fast drying for up to 2 coats in a day, quicker return-to-service, shear stable and lower induction time.	400 - 500	57

Topcoat 2K Polyurethane Systems

Product	Technology	Features	OH content	Solids Content %
MACRYNAL™ SM 6810w	<i>OH functional acrylic resin</i>	Glossy high film build topcoat with high chemical resistance, abrasion resistance and outdoor durability.	140	42
MACRYNAL SM 6826w	<i>OH functional acrylic resin</i>	Matte resin for high film build paint with high chemical and abrasion resistance. Can also be used directly on concrete.	140	42

Roofing Coatings

Factory Applied Coatings - Concrete Tiles

Product	Technology	Features	MFFT °C	Solids Content %
UCECRYL™ B 746	<i>Styrene acrylic emulsion polymer</i>	Good durability. For low gloss paints.	+2	50
UCECRYL B 983	<i>Acrylic emulsion polymer</i>	Excellent resistance to water whitening. Low water uptake. Suitable for clear coats and paints.	+17	48
UCECRYL B 1181	<i>Acrylic emulsion polymer</i>	Excellent resistance to water whitening. Low water uptake. Suitable for clear coats.	+2	48
UCECRYL B 1190	<i>Acrylic emulsion polymer</i>	High durability and ammonia free paints.	+3	49
UCECRYL B 1470	<i>Acrylic emulsion polymer</i>	High durability and ammonia free paints.	+19	49

Factory Applied Paints - Fiber Cement Sheets

Product	Technology	Features	MFFT °C	Solids Content %
UCECRYL B 1009	<i>Acrylic emulsion polymer</i>	High durability and hydrophobic.	+42	48
UCECRYL B 3009	<i>Acrylic emulsion polymer</i>	High durability, hydrophobic and ammonia free.	+46	47
UCECRYL B CT 60D	<i>Acrylic emulsion polymer</i>	High durability. Increased water vapour permeability.	+47	46

Factory Applied Coatings - Metal Roof Tiles

Product	Technology	Features	MFFT °C	Solids Content %
UCECRYL B 3016	<i>Acrylic emulsion polymer</i>	Excellent resistance to water whitening. Low water uptake. Suitable for clear topcoats.	+17	43
UCECRYL BMR 47	<i>Acrylic emulsion polymer</i>	Low water uptake. Suitable for high solids basecoats.	+2	55

Renovation paints

Product	Technology	Features	MFFT °C	Solids Content %
RESYDROL™ VAX 6267w	<i>Hybrid epoxy-acrylic emulsion</i>	Primer for adhesion on untreated clay tiles. Should be top coated with UCECRYL B 3010.	N/A	44
UCECRYL B 746	<i>Styrene acrylic emulsion polymer</i>	Good durability on fiber cement and concrete tiles. For low gloss paints.	+2	50
UCECRYL B 3010	<i>Acrylic emulsion polymer</i>	Excellent durability and low water uptake. For fiber cement, concrete and clay tiles (when used with a primer).	+18	48
UCECRYL B 3025	<i>Styrene acrylic emulsion polymer</i>	Good durability and low dirt pick up on different metals and galvanized steel.	+55	50

Stains

Product	Technology	Features	Oil Length %	Solids Content %
RESYDROL™ AY 586w	<i>Self emulsified acrylic modified alkyd dispersion, low particle size</i>	Low particle size dispersion that penetrates into the wood, provides good durability and could be used as carrier for wood impregnation.	58	45
RESYDROL AY 6705w	<i>Self emulsified acrylic modified alkyd dispersion, low particle size</i>	Exhibits very good durability. Fast dry when used as a vertical or horizontal stain.	N/A	44
RESYDROL AZ 6710w	<i>Self emulsified, acrylic and urethane modified (aliphatic) alkyd dispersion, low particle size</i>	Outstanding durability and resistance to foot traffic with low dirt pick up. Good color retention and is suitable for a wide variety of wood species.	N/A	41
RESYDROL VAL 5547w	<i>Linseed oil based alkyd resin, dilutable in water</i>	Very high penetration into the wood and is compatible with alkyd dispersions. Great for wiping stains.	62	100
Product	Technology	Features	MFFT, °C	Solids Content %
UCECRYL™ B 3022	<i>Acrylic emulsion polymer</i>	For formulating low VOC (<50g/l). Semi-transparent vertical stains on multiple wood species with good durability, wet adhesion, low water uptake and nice thickener response.	+12	44

Stain Blocking Primers

Product	Technology	Features	MFFT °C	Solids Content %
DUROXYN™ EF 2107w	<i>Cationic epoxy ester dispersion</i>	Stain, tannin and knot-blocking primer. Flexibilized resin.	+7	45
DUROXYN VEF 2406w	<i>Cationic epoxy ester dispersion</i>	Stain, tannin and knot-blocking primer. High hardness and quick sanding.	+17	45



Specialties

Product	Technology	Features	MFFT °C	Solids Content %
RESYDROL™ VAF 6111w	<i>Externally emulsified alkyd emulsion</i>	Additive resin to improve adhesion of acrylic resins on chalky surface or mineral surface. It is also used to improve open time.	N/A	60
RESYDROL VAS 6110w	<i>High solid pure alkyd emulsion</i>	Long oil alkyd resin with good wood penetration properties, especially suitable for woodstains or in combination with acrylic emulsions.	N/A	68
RESYDROL VAY 6278w	<i>Acryl-alkyd hybrid</i>	Universal product for various applications e.g. low yellowing top coats, stains and primers. Special features: no dryer needed, fast drying.	approx. 10	45
UCECRYL™ B 1181	<i>Acrylic emulsion polymer</i>	Very low water uptake and excellent outdoor resistance. Used in stucco (thin and thick layer elastomeric paint).	+2	48
UCECRYL B 3025	<i>Acrylic emulsion polymer</i>	Renovation paint for galvanized steel, coil and powder coating metal cladding, allowing direct adhesion to difficult substrates with excellent dirt pick up resistance.	+55	50



Trim Enamel

Product	Technology	Features	Oil Length %	Comment	Solids Content %
DAOTAN™ TW 1252	<i>Fatty acid modified polyurethane dispersion</i>	High gloss resin with quick hardness development. Excellent chemical resistance and flow.	31	Wood and metal DTM or monocoat	42
DAOTAN TW 6474	<i>Hybrid acrylic - polyurethane dispersion, self crosslinking</i>	Quick hardness development, scratch and water resistance without yellowing. An excellent choice for matte and semi-gloss paints to blend with acrylic or other alkyd resins.	N/A	Wood	37
RESYDROL™ AY 430w	<i>Acrylic modified alkyd dispersion</i>	High gloss resin with quick drying time and excellent blocking resistance.	44	Wood	42
RESYDROL AY 6150w	<i>Acrylic modified chain stopped alkyd dispersion</i>	High gloss and quick drying resin with excellent hardness development.	35	Wood and metal DTM or monocoat	45
RESYDROL AZ 6185w	<i>Acrylic and urethane modified (aliphatic) alkyd dispersion</i>	Very quick drying, high hardness, increased scratch resistance with early water resistance and good gloss for interior applications and use with multiple binder chemistries.	32	Wood and metal	40
RESYDROL AZ 6191w	<i>Self-emulsified acrylic and urethane modified alkyd emulsion</i>	Excellent hardness and drying development. Shear stable, high gloss, great flow and leveling, high color retention for indoor and outdoor.	44	Wood and metal	42
RESYDROL VAF 6111w	<i>Alkyd emulsion externally emulsified</i>	A high solid, low yellowing, blending resin to improve open time, provides adhesion to chalky substrates and can help achieve higher gloss while being free of amine and ammonia.	40	Wood	60
Product	Technology	Features	MFFT, °C	Comment	Solids Content %
UCECRYL™ B 3016	<i>Acrylic copolymer emulsion</i>	Binder for DTM paint with corrosion resistance with minimum use of corrosion inhibitors if required. Provides low water uptake and is suitable for both indoor and outdoor applications.	+17	Metal DTM or monocoat	43
VIACRYL™ VSC 6279w	<i>Acrylic copolymer emulsion</i>	Excellent compatibility with alkyd resin emulsions. High shear stability. High pigment loading capacity and suitable for quick drying anti corrosion and wood primers.	25	Metal DTM or monocoat	45

Wood Flooring

1K Sealer & Topcoat

Product	Technology	Features	Application	MFFT, °C
DAOTAN™ TW 6440	<i>Oil-based polyurethane dispersion, self crosslinking</i>	NEP and NMP-free with very good chemical resistance and quick drying time providing solventbased like aspects on wood. Good abrasion resistance and low tannin sensitivity.	Sealer and topcoat	0
DAOTAN TW 6474	<i>Aliphatic polyurethane - acrylic hybrid, self crosslinking</i>	NEP and NMP-free resin with excellent durability, quick hardness development, scratch and water resistance without yellowing; an excellent choice for matte and semi-gloss paints to blend with acrylic or other alkyd resins.	Topcoat	+17
DAOTAN TW 6493	<i>Aliphatic polyurethane dispersion</i>	Solvent free, colorless, quick sandability and excellent abrasion resistance.	Sealer and topcoat (1K or 2K)	+15
DAOTAN VTW 1265	<i>Aliphatic polyurethane - acrylic hybrid</i>	Solvent free resin with quick drying time for wood coatings with low-to-no coalescing demand.	Topcoat	+1
RESYDROL™ VAL 5547w	<i>Water dilutable modified linseed oil resin</i>	High penetration resin with low grain raising and tannin extraction providing high transparency and flexibility in application methods.	Wood floor oil	N/A
UCECRYL™ B 3010	<i>Acrylic emulsion polymer</i>	Sealers formulated with this resin can provide transparency, good sandability and low water uptake.	Sealer	+18
VIACRYL™ VSC 6286w	<i>Acrylic emulsion polymer, self crosslinking</i>	Good sandability and chemical resistance and should not alter the color of the wood.	Wood lacquers and sealers, decorative paints and woodstains	+11
VIACRYL VSC 6295w	<i>Acrylic emulsion polymer, self crosslinking</i>	Very good chemical resistance. Compatible with PUD resins and should not alter the color of the wood.	Sealer & topcoat	+30

2K Topcoat

Product	Technology	Features	Application	MFFT, °C
MACRYNAL™ SM 6825w	<i>OH functional Acrylic emulsion</i>	Same properties as MACRYNAL VSM 2521w but does not contain n-butanol.	Topcoat	N/A
MACRYNAL VSM 2521w	<i>OH functional Acrylic emulsion</i>	For 2K systems using a polyisocyanate for quick drying and high abrasion and chemical resistance (4% OH on solid resin).	Topcoat	N/A
MACRYNAL VSM 6299w	<i>OH functional Acrylic emulsion</i>	Excellent balance of dry-time, hardness, gloss and achievable dry film thickness (4.1% OH on solid resin).	Topcoat	N/A

Solventborne

Alkyd Binders for Decorative Paints

VIALKYD™	Type	Oil Length, %	Architectural paints	Wood primers	Clear coats, floor	Wood stains	Marine paints	Combination resins	High solid	Mat paints	Special effects	Less aromatics	Thixotropic	Properties and uses
AM 764/ 60WS	Phenolic, isophthalic soya tung	75	●		●	●								Excellent resistance to weather and water. Radiant brilliance and good gloss retention. Yacht varnishes. Anticorrosive systems.
AS 533TIX/ 50SD60	Soya oil	53	●	●	●	●	●	●					● ●	Strong thixotropy and rapid drying. In combination also for anticorrosive thick layer paints.
AS 673M/ 60SD60	Soya oil	64	●	●		●							●	Excellent initial and through drying. High gloss and good build. Excellent yellowing and weather resistance.
AS 6140SCA/ 49SD60	Soya oil	60	●	●	●		●	●					● ●	Pumpable. Concerning gloss retention and weather resistance, shows better properties than polyamide thixotropic alkyds.
SAF 724/ 78SD60	Fatty acids, rich in linoleic acid	72	●			●							●	Outstanding for outdoor and very good yellowing resistance. Fast drying, high flexibility and good gloss retention.
VAF 6091	Vegetable fatty acids	89	●			●		● ●					●	Application properties are the same as with normal conventional alkyds.

Special Alkyd Binders for Decorative Paints

AV 608/ 60WS	Styrene modified oil	60	●											Aluminium paints. Excellent weather, water and corrosion resistance. High gloss.
TO 167/ 60IRH TO 167/ 60K60	Urethane, soya	68			●		●							Tough and abrasion resistant films with excellent water and chemical resistance.
TO 608/ 55SD60 TO 608/ 60WS	Urethane, soya	64			●			●						Rapid initial and through drying. High abrasion resistance. Very good resistance to chemicals and water.
TO 750/ 65IRH	Urethane, vegetable oils	71			●									Floor oils.

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LRA1001-EN-WW-0614