# **LIQUID RESINS**

# **PRODUCT GUIDE •** Asia Pacific





#### **FACTS & FIGURES**



#### **About us**

- Global company with nearly \$1.5 billion in sales
- Resin portfolio that comprises of more than 80% of solvent-free and waterborne products
- Broad technology portfolio: liquid coating resins, energy curable resins, powder coating resins, crosslinkers and additives
- · Approx. 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, consumer electronics & industrial plastics and specialty architectural

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Trade Names	Nomenclature	Description
BECKOCURE™	EH, VEH	Amine hardeners for expoxy resins and dispersions
BECKOPOX™	EP, VEP EM	Waterborne epoxy resins Waterborne modified epoxy resins
DAOTAN™	VTW, TW	Waterborne polyurethane dispersion (physically drying/self-crosslinking/carboxyl and hydroxyl functional)
DUROFTAL™	VPI VPE	Solventborne hydroxylated polyesters for isocyanate crosslinking Solventborne hydroxylated polyesters for amino resin crosslinking
DUROXYN™	EF, VEF	Solventborne and waterborne epoxy ester resins
MACRYNAL™	SM, VSM	Solventborne and waterborne acrylic polyols for isocyanate crosslinking
RESYDROL™	AL, VAL AM, VAM AN, VAN AS, VAS AX, VAX AY, VAY AZ, VAZ	Solventborne and waterborne linseed oil modified alkyd resins Solventborne and waterborne mixed fatty acid/oil modified alkyd resins Solventborne and waterborne polyester resins for baking systems Solventborne and waterborne sunfloweroil modified alkyd resins Waterborne modified epoxy alkyd resins Waterborne modified acrylic alkyd resins Waterborne modified urethane alkyd resins
UCECRYL™	В	Waterborne acrylic resins, physically drying
VIACRYL™	SC, VSC	Solventborne and waterborne physically drying/self-crosslinking and baking acrylic resins

Abbreviation	Description
ABS	Acrylonitrile butadiene styrene
Ac	Acetone
AV	Acid value
ВА	Butyl acrylate
BDG	Dibutoxyethanol
BG	Butyl glycol
ВР	Butoxy propanol
BuAc	Butyl Acetate
CED	Cathodic electrodeposition
DACA	Diacetone alcohol
DBGE	Dipropylene glycol methylether
DGDDA	Dipropylene glycol diacrylate
DIY	Do It Yourself
DMEA	Dimethylethanol amine
DTM	Direct to metal
EDG	Ethylene diglycol
EEP	Ethoxy ethoxy propanol
EG	Ethylene glycol
EP	Ethoxy-propanol
EPAc	Ethoxy propyl acetate
EtAc	Ethyl acetate
HDDA	Hexanediol diacrylate
HEW	Hydrogen equivalent weight
НРМА	Hydroxypropyl methacrylate
IP	Isopropanol
Iso H	Isopar H
Isobut	Isobutanol
LG	Butyl Acetate/Xylene Solvent naphta 150/180
МВ	Methoxy butanol

Abbreviation	Description
MeAc	Methyl acetate
MFFT	Minimum film formation temperature
ММА	Methyl methacrylate
MP	Methoxy propanol
MPAC	Methoxy propyl acetate
MPP	Methoxy-propoxy propanol
n-BuAc	Butyl acetate
n-But	n-Butanol
NH <sub>3</sub>	Ammonia
NMP	n-methyl-pyrrolidone
ОН	Hydroxyl number
PA	Polyamide
PC	Polycarbonate
PE	Propoxy ethanol
PET	Polyethylene terephtalate
РМА	Propoxy methyl acetate
РММА	Polymethyl methacrylate
PP flamed	Polypropylene flamed treated
PS	Polystyrene
PVC	Polyvinyl chloride
SCA	Sag control agent
SNA	Solvent naphta 150/180
Tol	Toluene
TEA	Triethylamine
Тg	Glass transition temperature
TMPFA	Trimethylolpropane formalacrylate
TPGDA	Tripropylene glycol diacrylate
WA	Water
Xyl	Xylene

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	HEW on FOD	Amine Value	lodine Colour
EH 613w/80WA	80	Water	23000 - 31000	145	230	10
EH 623w/80WA	80	Water	12000 - 21000	200	210	20
EH 659w/50WA	50	Water	17000 - 27000	215	160	70
EH 2142w/63WA	63	Water	5000 - 10000	192	220	<=20
EH 2189w/50WA	50	Water	10-100	138	230	<=10
VEH 2106w/80WA	80	Water	14000 - 25000	142	230	20
VEH 2188w/55WA	55	Water / PE	6000 - 14000	380	135	25
VEH 2849w/80WA	80	Water	18000 - 25000	134	255	<=10

Special Properties and Uses
Aliphatic polyamine adduct, fast drying, good anticorrosion performance. Used for 2 pack ambient or forced dry waterborne coatings for metallic substrate with good anticorrosive performance.
Low reactive aliphatic polyamine adduct, long pot life. Used for 2 pack ambient drying waterborne coatings on mineral and metallic substrates, hydraulic epoxy mortars (ECC).
Extremely low reactive aliphatic polyamine adduct, very long pot life. Used for 2 pack waterborne coatings on mineral and metallic substrate; partner for highly reactive hardeners.
Modified aliphatic polyamine adduct, high film build. Used for 2 pack waterborne self leveling thick layer coatings for mineral substrates with a film thickness of a few millimeters.
Very high reactive polyamine, extremely fast drying and though curing; when combined with EP384, excellent humidity and salt spray resistance achieved. Used for 2 pack fast drying waterborne coatings on metallic substrates.
Aliphatic polyamine adduct, fast drying, visual end of pot life. Used for 2 pack waterborne coatings on mineral and metallic substrates.
Hydrophobic aliphatic polyamine adduct and free of volatile basic amines, low reactivity and long pot life, excellent anticorrosion performance. Used for 2 pack ambient or forced dry waterborne primers/monocoats on metal with excellent anticorrosive performance.

Aliphatic polyamine adduct, fast drying, improved stability of aqueous dilutions and better temperature stability. Used for 2 pack ambient or forced dry waterborne coatings for metallic substrate with good anticorrosive performance.

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Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	EEW on FOD	Special Properties and Uses
EM2120w/45WA	45	Water	25-1000	none	Cationic epoxy-amine adduct dispersion, excellent corrosion resistance, fast hardness development. Used for 1 pack anticorrosive primers or monocoats, especially for smooth steel.
EP 128	100	-	900-1300	190-200	Reactively diluted A-liquid epoxy, low viscosity. Used for 2 pack ambient or forced dry waterborne chemical-resistant coatings, adhesives, concrete injections, trowelling casting and laminating compounds; hydraulic epoxy mortars (ECC).
EP 147w	100	-	9000-13000	188-200	Water emulsifiable A/F-liquid epoxy containing reactive emulsifier, non-crystallizing, when combined with solid epoxy dispersions could increase hardness and chemical resistance. Used for 2 pack waterborne epoxy primers/ coatings on mineral and metallic substrates; 2 pack adhesives and water-washable jointing-compounds for tiles.
EP 384w/53WAMP	53	Water / MP	400-750	920-1040	Shear stable type 1 epoxy dispersion, fast drying, good hardness. Used for 2 pack waterborne coatings for concrete and metal.
EP 385w/56WA	56	Water / IP	400-1100	850-930	Internally plasticized type 1 epoxy dispersion, good flexibility. Used for 2 pack waterborne anticorrosive metallic coatings and plastic coatings.
EP 386w/52WA	52	Water / PE	300-1500	900-1100	Internally plasticized type 1 epoxy dispersion, shear stable, good flexibility. Used for 2 pack waterborne anticorrosive metallic coatings and plastic coatings.
EP 387w/52WA	55	Water / MP	300-1500	900-1100	Internally plasticized type 1 epoxy dispersion, shear stable, cheaper version of EP386. Used for 2 pack waterborne anticorrosive metallic coatings and plastic coatings.
EP 2340w/56WA	56	Water	300-600	380-480	Modified A-liquid epoxy dispersion, drying faster than EP147w at low temperature and elevated atmospheric moisture, when combined with solid epoxy dispersions could increase hardness and chemical resistance. Used for 2 pack waterborne coatings for mineral and metallic substrate.
EP 2384w/57WA	57	Water	300-1300	650-850	Shear stable type 1 epoxy dispersion, zero VOC, fast drying and hardness development. Used for 2 pack rapid drying waterborne anticorrosive metallic and mineral coatings.
VEP 2381w/55WA	55	Water / PE	3500-12000	850-960	Shear stable type 1 epoxy dispersion, fast drying, good hardness. Used for 2 pack fast drying high build waterborne coatings for mineral and metallic substrates.
VEP 2382w/55WA	55	Water / MP	3500-12000	850-960	Shear stable type 1 epoxy dispersion, fast drying, good hardness. Used for 2 pack fast drying high build waterborne coatings for mineral and metallic substrates.
VEP 2390w/75MP	75	MP	3000-6000	620-690	Internally plasticized type 1 epoxy diluted in MP water emulsifiable. Used for 2 pack waterborne epoxy zinc rich shop primer and primer.

Product Name	Backbone	Non-volatile %	Viscosity at 23°C mPa.s	pH at 10% in water	% Elongation	OH number on solid resins	Special Properties and Uses
TW 6431/45WA	Polybutadiene	45	150-1500*	7.0-8.0	310	-	Poly-(urethane-urea)-dispersion based on poly(butadiene). It is fast drying and provides clear, crack free and highly flexible films.
TW 6490/35WA	Polyester	35	50-100	9.0-9.5	400	-	Physically drying, very good adhesion to plastic substrates and high elasticity and toughness.
TW 6493/35WA	Polyester	35	50-100	9.5-10.0	30	-	Quick physical drying, high film hardness, high elasticity and toughness.
VTW 1250/40WA	Fatty Acid	40	1800-3200	6.8-8.0	-	-	Rapid dry and through drying. High corrosion protection. Good compatibility with acrylic dispersions.
VTW 1225/40WA	Polyester	40	100-800	6.7-7.7	230	47	Broad adhesion range, highly flexible coatingsystems especially for primers and decorative top coats for plastics.
VTW 1236/40WANMP	Polycarbonate	40	1000-2000	7.0-9.0	600	-	Good stone chip resistance, excellent mechanical properties.
VTW 1252/42WA	Fatty acid	42	500-1500	7.0-9.5	-	-	Very fast set and through drying. Very high gloss in decorative top coats. Good water and weather resistance.
VTW 1262/35WA	Polycarbonate	35	5-50	7.5-8.4	245	32	Designed to formulate air and stove cured industrial coating systems, especially for base coats used in the automotive industry.
TW 5661/37WA	Polyester	37	50 - 200	7.2 - 8.7	-	-	Developed for interior and exterior wood paint, furniture and parquet lacquers with good blocking and excellent chemical abrasion resistance.
VTW 6464/36WA	Polyester	36	15-250	7.4-8.4	140	36	Self-cross linkable acrylated polyurethane dispersion providing quick drying and good wetting properties, recommended for waterborne plastic primer and basecoats.
VTW 6470/39WA	Polyester/ polyether	39	100-1000	6.5-7.5	-	77	Shear stable, pigment compatible, hydroxyl functional polyurethane dispersion. suitable for a wide variety of substrates such as metal, concrete and plastic.
TW 7000/40WA	Polycarbonate	40	100-1000	7,2 - 9,1	-	170	Improved chemical and abrasion resistance, suitable for 2K high gloss or metallic monocoats.

Product Name	Backbone	Non-volatile %	Viscosity at 23°C mPa.s	OH number on solid resins
PE 6160/50MPAC	50	МРАС	500 - 1500*	30
PE 6192/60SNABG	60	Aro150 / BG	5000 - 8000	150
PE 6607/60BGMP	60	BG/MP	500 - 2000	345
VPE 6104/60MPAC	60	MPAC 4000 - 8000		90
VPE 6128/70SNABG	70	Aro150 / BG	1500 - 3000	60L
VPI 2801/78BAC	78	BAC	8000 - 13000	220 - 240
VPI 2803/78BAC	78	BAC	7000 - 19000	165 - 195

<sup>\* 40%</sup> in MPAC \*\*50% in BG

#### **DUROXYN™ Waterborne Epoxy Ester**

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	Density
VAX 6127w/42WA	42	Water/MB	200 - 3000	1.03
VEF 2406w/40WA	40	Water/MB	50 - 1000	1.07
EF 2107w/45WA	45	Water/MB	25 - 1000	1.07

#### **Special Properties and Uses**

Excellent flexibility, deep drawing and good retort resistance. Good compatibility with phenolic resins. Recommended for exterior and interior white and clear can coating. Suitable for BADGE & BPA free can coating system. NPG Free for alcoholic foodstuff as well.

Well balanced between flexibility, crosslinking density and hardness. Excellent weathering resistance and self cleaning/easy-to-clean performance. Recommended for outdoor coil coating top coats with super durable and self-cleaning/easy-to-clean performance and very low dirt pick up.

Higher reactivity, water dilutable after neutralization with amines. In combination with suitable phenolic resins for BADGE & BPA free can coating system. NPG Free for alcoholic foodstuff as well.

Excellent flexibility, hardness and retort resistance. Good compatibility with phenolic resins. Recommended for exterior and interior white and clear can coating. Suitable for BADGE & BPA free can coating system. NPG Free for alcoholic foodstuff as well.

Excellent flexibility, high yield, good gloss and yellowing resistance. To be used as economical, flexible and high solid coating systems for standard outdoor and indoor coil applications.

Ultra high solid, high hardness, high gloss, excellent chemical resistance, superior weathering stability. For ultra high solid, high quality 2K clear and pigmented top coat for automotive refinish and industrial application.

High solid, high hardness, high gloss, excellent chemical resistance, superior weathering stability. For high solid, high quality 2K clear and pigmented top coats for automotive refinish and industrial application.

#### Special Properties and Uses

Quick oxidative drying, excellent corrosion resistance, high water stability, good re-coatability. Sole binder for air and forced drying anticorrosive primers and industrial coatings.

Developed for the production of 1 component primers, with quick drying and high film hardness.

Developed for the production of 1 component primers, with quick drying and high film hardness.

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Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	Colour Scale	OH content on resin solid %	OH number on solid resins
Solventborne resin	S					
SM 507/53XBAC	53	Xyl/BuAc	5500-7500	70 max	1.8	60
SM 510n/60LG	60	n-BuAc/SNA/Xyl	2400-2600	80 max	4.5	150
SM 510n/65BACX	65	Xyl/BuAc	3500-7000	200 max	4.5	150
SM 513/60LG	60	n-BuAc/SNA/Xyl	2400-4000	50 max	3.6	120
SM 515/70BAC	70	n-BuAc	3600-6000	100 max	4.5	150
SM 516/70BAC	70	n-BuAc	7000-11000	200 max	4.5	150
SM 540/60X	60	Xyl/BuAc	1400-2400	200 max	1.4	45
SM 548/50X	50	Xyl/BuAc	600-1200	70 max	2.0	65
SM 2703/80BACX	80	Xyl/BuAc	7000-9500	100 max	2.2	73
SM 2711/70BAC	70	BuAc	1500-2500	100 max	27	90
SM 2810/75BAC	75	BAC	4500-6000	100 max	4.1	135
SM 2930/70BAC	70	BuAc	2000-4200	100max	4.4	145
SM 2855/70BAC	70	BuAc	3500-5500	100max	6.0	200
VSM1509/60LG	60	BuAc/SNA/Xyl	5000-7000	200 max	3.0	100
VSM 2155/60EPAC	60	EPAC	3900-4800	80 max	5.8	190
VSM 2570/70BAC	70	n-BuAc	2200-3800	80 max	2.4	80
VSM 2800/70BAC	70	n-BuAc	2000-5000	100 max	4.4	145

Special Properties and Uses
Fast drying two-pack lacquers for industrial applications at ambient temperature as well as forced drying. Superior adhesion to Aluminium and plastic parts (ABS and PC).
At ambient temperature drying or forced drying two pack systems with high gloss, excellent mechanical properties, superior outdoor durability and chemical resistance, in particular for automotive repair topcoats or clearcoats"
High solid version of SM 510n/60LG.
Excellent mechanical properties and chemical resistance. Used for fast drying two pack systems, in paricular for primer surfacers for car repairs and for general industrial applications.
Air-drying and forced drying two pack systems with high gloss, excellent mechanical properties and excellent chemical resistance for automotive refinishes.
Air-drying and forced drying two pack medium high solids systems with high gloss, excellent mechanical properties, excellent chemical resistance and good outdoor durability for automotive refinishes.
Superior adhesion to metals and non-iron metals (aluminum, zinc).
Fast drying two-pack systems with high hardness.
For air-drying as well as forced drying high-solids two pack topcoats for industrial applications. The principle application area is industrial topcoats providing a low content of volatile organic compounds (VOC) and high pigment loading.
For air-drying as well as forced drying high-solids two pack primers and topcoats for industrial applications. Fast drying with high hardness.
The principal application areas are car refinish, ACE (agricultural, construction and earthmoving equipment) as well as high quality industrial coatings. Excellent pigment wetting, low VOC.
For air-drying and forced drying two pack coatings with high gloss, outstanding mechanical properties, excellent chemical resistance and outdoor stability.
Fast drying, excellent chemical resistance. Especially suited for coatings on aero planes or military vehicles.
Very fast drying, fast film hardness development, high outdoor durability for Auto refinishes.
Excellent chemical resistance, pigment wetting. Especially suited for coatings on aero planes or military vehicles.

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	OH number on solid resin	OH equivalent on FOD	AV on solid resin
Waterborne resins						
VSM 2521w/42WAB	42	Water	200-1200	135	-	16 - 23
VSM 6299w/42WA	42	Water	800-4000	135	415	< 30
SM 6810w/42WA	42	Water	200-1200	135	415	16 - 23
SM 6826w/43WA	43	Water	120-1200	145	4.4	-

Special Properties and Uses	
High quality clear coats and top coats with excellent resistance to chemicals and excellent drying properties.	
In combination with water-emulsifiable polyisocyanates for high quality 2-pack topcoats with excellent development of hardness at room temperature drying and very good gloss.	
In combination with water-emulsifiable polyisocyanates for high quality 2-pack topcoats with excellent applicability and appearance.	
Hydroxyl functional polyacrylate dispersion and highly suitable for the formulation of top quality 2-pack polyurethane coatings, in particular primer surfaces/fillers as well as matte top- and clear coats, when used incombination with water-emulsifiable polyisocyanates.	

High gloss, high DOI, leveling, very high solids, 2-pack clear coats and pigmented topcoats for automotive refinish and industrial lacquers.

High solids content, good drying speed, adhesion to metals, gloss and outdoor durability.

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	pH at 10% in water	Type of modification	Oil length %
AX 237w/70BG	70	BG	8000 - 14000	NA	Ероху	23
AY 586w/45WA	45	Water	5000 - 10000	7.5 - 8.5	Acrylic	58
AY 6150w/45WA	45	Water/ BP	300 - 2000	8.0 - 9.2	Acrylic	35
VAN 6113w/42WALG	42	Water/ BG/ MP	500 - 3000	3.0 - 5.0	Polyester	NA
VAX 6267w/40WA	40	Water	45 - 200	8.0 - 9.0	Ероху	7
AY 6705w/44WA	44	Water	100 - 1000	7.5 - 9.5	Acrylic	35
AZ 6710w/41WA	41	Water	500 - 1000	7.5 - 9.5	Acrylic/ Urethane	29
AZ 6185w/40WA	40	Water	200 - 1200	8.0 - 9.2	Acrylic/ Urethane	32

Special Properties and Uses
Sole binder for air-drying corrosion protection coatings. In combination with suitbale melamine resins also for stoving systems. With polymer emulsions for air-drying coatings for wood and plastic.
Sole binder for waterborne decorative paints, exterior wood stains and industrial finishes.
Designed for the production of air-drying, waterborne 1 pack topcoats and monolayers. Paints based on this resin show quick drying, high gloss and corrosion protection, good adhesion on various substrates and very good recoatability at any time.
Good water, alcohol, oil and grease resistance as well as a good adhesion to various plastics, suitable for painting of HiFi cabinets and interior automotive components.
Extremely fast physical initial and good oxidative through drying. Excellent adhesion to various substrates. High water and corrosion resistance. Suited to formulate corrosion resistant primers.
An acrylic modified alkyd emulsion which can be used alone or in combination with other w/b resins for decorative paints, exterior wood stains and industrial finishes.
Sole binder for (trim) paints, primers and wood-stains.

Sole binder for paints, primers and wood-stains (interior).

## **RESYDROL** Waterborne Alkyd Dispersions for Oven Dry Systems

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	Appearance	pH at 10% in water
AX 246w/70BG	70	BG / MP	340 - 690	Brown	Not neutralized
AX 247w/70BGMP	70	BG / MP	9000 - 17000	Brown	Not neutralized
AX 906w/35WA	35	Water / MP	160 - 560	Clear opaque	7.0 - 8.5
VAZ 6600w/36WA	36	Water / MPP	100 - 800	Brown	7.0 - 8.0
AZ 6608w/43WA	43	Water / NMP / MP	100 - 1500	Milky-White	7.5 - 8.5
VAY 5536/35WA	35	Water / NMP	500 - 8000	Opaque	7.5 - 9.2

Special Properties and Uses
Excellent pigment wetting. Outstanding anticorrosive properties. Used for waterborne corrosion-resistant dipping and spray primers for low stoving temperatures.
Excellent pigment wetting. Outstanding anticorrosive properties. Used for waterborne corrosion-resistant dipping and spray primers for low stoving temperatures.
Outstanding anticorrosive properties, excellent pigment wetting. Single coat stoving for waterborne corrosion-resistant dipping and spray primers.
Used for low bake waterborne stoving enamels providing very high film hardness, high film elasticity, good gloss, excellent chemical resistance.
Used for extremely flexible stoving enamels with extraordinary good stone chip resistance, excellent thermal yellowing stability and good gloss.
Best suited for the production of waterborne high-quality white and coloured one-coat finishes or top coats with good weathering resistance for industrial applications.

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	MFFT in °C
В 3016	43	Water	500 max	-
B 3025	50	Water	100	50

#### **Special Properties and Uses**

A medium MFFT straight acrylic emulsion copolymer with a very good resistance to water whitening and a low water absorption. Topcoat for metal roof tiles.

A high MFFT styrene acrylic emulsion copolymer.

Recommended for use in concrete floor coatings and renovation paints for metal sidings.

#### VIACRYL™ Solventborne and Waterborne Acrylic Resins, Physically Drying/ **Self-crosslinking and Amino Resins Crosslinking**

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	Tg / °C	
Solventborne Acrylic Resins - Thermoset acrylic					
SC 303/65XB	50	Xylene / butanol	700-1300	-	
SC 341/60SNABAC	48	Naphtha / butyl acetate	500-1200	-	
SC 2960/75SNA	75	Naphth	4000 - 7000	-	
SC 370/75SNA	75	SNA	4200-7200	-	
Solventborne Acrylic Re	sins - Thermoplastic acryli	С			
SC 200/40XB	40	Xylene / n-butanol	300-500	-	
VSC 6324/46BAC	46	BuAc	3000-7000	75	
VSC1017/25X	25	Xylene	500 - 1000	42	

VSC1017/25X	25	Xylene	500 - 1000	42
Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	MFFT in °C
Waterborne Acrylic Res	ins, Physically Drying/Self-	crosslinking and Amino Re	sins Crosslinking	
6254w/40WA	40	Water	150-700	45
VSC 6276w/44WA	44	Water	200 - 2400	-
VSC 6279w/45WA	45	Water	280-1600	25
VSC 6295w/45WA	45	Water	30-600	30
SC 6828w/45WA	45	Water	20-200	10 max

#### **Special Properties and Uses**

Automotive finishes, in particular for metallics, especially for metallic basecoats (wet-on-wet process). Stoving enamels with good outdoor Durability and colour retention, for general industrial purposes.

Superior radiance, high surface hardness, excellent weather resistance. Medium solid acrylic resin for uni-coloured automobile finishes and isocyanate systems. With light stabilizers for clear coats over metallic basecoats.

Suggested for automotive clear coats (OEM) sprayed wet-on-wet over solventborne or water-borne basecoats, with excellent scratch resistance and etch resistance.

High solids stoving enamels for automotive finishes or general industrial purposes, resin base for pigment pastes.

Air and forced drying industrial coatings with fast drying and high hardness. Specialty coatings for glass, precious metals and plastics.

Rapid drying, good gloss retention and high petroleum resistance makes it suitable for use in automotive coatings for repair finishes.

Hard surface, chemical resistance for automotive repair finishes, industrial coatings and retouching paints, aerosol spray systems for the do-it-yourself field.

#### **Special Properties and Uses**

Mainly suitable in combinations with alkyd emulsions and hydroxyl functional copolymer dispersions in order to improve the physical drying properties."

When cross-linked with reactive melamine resins such as CYMEL™ 325 or CYMEL 327 to give less-yellowing industrial coating systems with good gloss.

Excellent compatibility with alkyd resin emulsions. High shear stability. Very quick set- and through drying. Excellent non yellowing properties and outdoor durability.

To be used as sole binder for waterborne wood coatings. Formulations based on Viacryl VSC 6295w show excellent chemical resistance and suitable in floor sealers as well as for furniture lacquers.

Specially designed for adhesion on various plastic substrates like PC, PMMA, PA-6, PVC and PET. Rapid drying, high hardness, high chemical and water resistance.

Product Name	Non-volatile %	Solvent	Viscosity at 23°C mPa.s	Туре	
Acrylic CED					
VIACRYL™ VSC 6250w/65MP	63 - 67	Methoxypropanol	18000 - 35000	External cross-linkable acrylate binder for application in cathodic electro dipping coating.	
Epoxy CED					
RESYDROL™ EZ 6635w/35WA	34 - 36	Water	20 - 1000	Self-crosslinking, thermosetting CED binder.	
RESYDROL EZ 6638w/35WA	33.5 - 36.5	Water	20 - 1000	Self-crosslinking, thermosetting CED binder.	
RESYDROL EZ 6642w/55BG	53 - 57	Butylglycol	4000 - 10000	Grinding resin for 2-component cathodic ED-paints.	

#### Special Properties and Uses

Binder for pigmented primer or clear paint for the production of transparent protective coatings on iron and non-iron metals.

Binder for the formulation of CED - coatings for industrial applications. Depending on the coatings formulation, film thickness can be adjusted between 20 and 45  $\mu$ m.

Binder for the formulation of CED - coatings for industrial applications. Depending on the coatings formulation, film thickness can be adjusted 20µm.

Grinding resin allows the production of highly pigmented stable pastes.







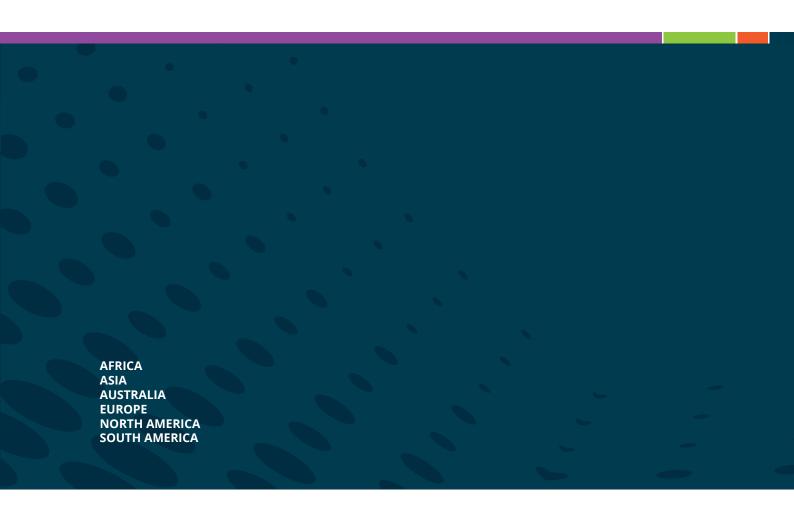
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