Advanced Polymer Technologies for

Industrial Metal Coatings

HEALTH · NUTRITION · MATERIALS

DSM
BRIGHT SCIENCE. BRIGHTER LIVING.

Create brighter lives...

...for people today and for generations to come.

Our business is all about improving people's lives. At DSM we want to make life brighter for people – today and in generations to come. We connect our unique skills in materials sciences to create solutions that nourish, protect, and improve performance. And contribute to a more sustainable world. This is reflected in how we approach the coatings business.

Brighter future

Some companies see sustainability as a challenge, but at DSM for coating resins we see it as an opportunity, with endless possibilities to work together for a brighter future. By exchanging ideas and collaborating openly, we are making a difference. Innovating to add value to people's lives, ensure profitability, and protect the planet.

Bright Science

Bright Science is at the heart of all we do in coatings. Based on our intimate knowledge of our markets and our deep materials science expertise across a wide range of applications. Our global network of industry specialists spend their working lives traveling the world and talking to customers and other players in the supply chains. Through these deep partnerships built on mutual trust, we create bespoke resins and technologies that enhance our customers' formulations and their customers' everyday experiences.

Brighter Living

This means Brighter Living for everyone. Now you can rest your wine glass on a beautifully lacquered coffee table without leaving a stain. Or apply mosquito spray before heading out into the sun, knowing it won't take the shine off your cabriolet's interior paint. That's the real beauty of Bright Science, brightening lives wherever and whenever it touches them.

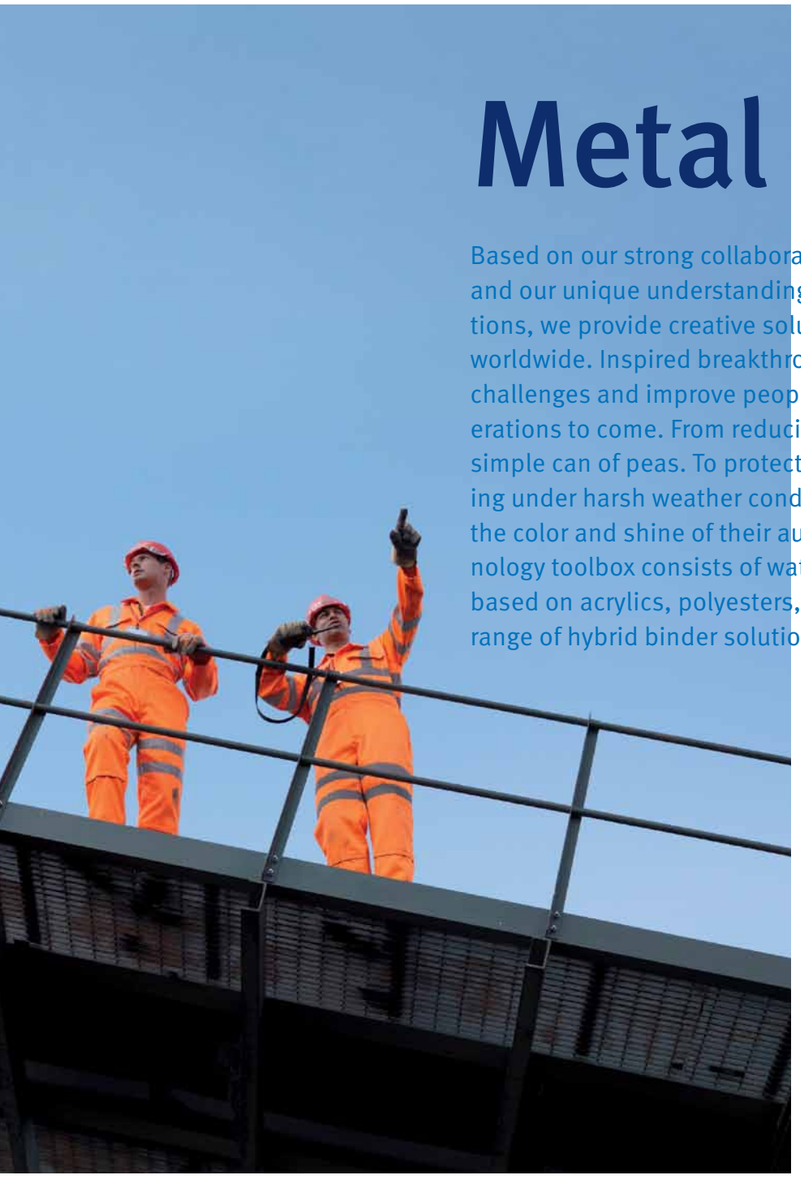
DSM for coating resins

DSM has a dedicated division that draws upon its broad know-how and understanding of market and customer needs to develop innovative resin solutions that deliver the best performance in the coatings and graphic arts markets.

From our headquarters in the Netherlands, we provide resins for coatings and graphic arts markets around the globe. We support our customers with manufacturing sites in North America, Europe, and Asia. Our brand names are well known around the world, including NeoCryl™, NeoRez™, NeoPac™, NeoRad™, Hybrane™, Uralac™, Uracron™, Urathix™, and Uradil™.

Customers rely on us for a unique range of tailor-made, sustainable solutions based on Water-borne, UV, powder, and Solvent-borne technologies. We are the largest producer of polyester resins in the world and one of the largest producers of specialty emulsions, ensuring a dependable supply of product that fits our customers' individual requirements.

We have a dedicated focus on people, profit, and planet. As an example, we design resin systems with tomorrow's environmental requirements in mind, guided by our Product Stewardship principles, by an awareness of the need for continuity, and by a strong sense of responsibility. We have an outstanding sustainability record in specialty resins that we continue to improve each day.



Metal Coating

Based on our strong collaborative partnerships with customers and our unique understanding of materials science and applications, we provide creative solutions for Metal coating markets worldwide. Inspired breakthroughs that meet our customer's challenges and improve people's lives – now and for many generations to come. From reducing the environmental impact of a simple can of peas. To protecting a North Sea oil rig from corroding under harsh weather conditions. Or helping a family enjoy the color and shine of their automobile longer. Our broad technology toolbox consists of water-borne and solvent-borne resins, based on acrylics, polyesters, polyurethanes, alkyds, and a wide range of hybrid binder solutions.

Can and Coil

We have long expertise in the materials science, applications and value chain for the can and coil coating industry. It covers diverse resins based on water-borne and solvent-borne formulations to coat coils, and the inside and outside of cans. Our broad technology expertise spans polyesters, acrylics, alkyds, and urethane chemistries. Our customer partnerships allow us to efficiently develop new products and improve existing ones to meet your toughest issues. For instance, a scratch proof, soft drink can that feels silky smooth. Building panels that cost less to produce and last longer to better protect homes and offices. Creating sustainable solutions is a key driver. Working together we can help you find alternatives for undesirable raw materials in can coatings, for example, or increase the yield of your coating on coil. So that you can add more value to your coating system and be more successful.

Automotive coatings

Take advantage of a full spectrum of solvent-borne and water-borne resins, based on a variety of polyester, acrylic, alkyd, and urethane chemistries in one and two pack systems to meet the most demanding coating requirements for automotive OEM and car refinishing. We work closely with the leading suppliers to the automotive industry to create new coating breakthroughs. The result? Stronger brand loyalty from consumers whose vehicles look like new for a longer time. Cleaner processes and therefore more customer preference by producing automobile coatings in a more sustainable way, using fewer Volatile Organic Compounds (VOC). More application flexibility from coatings that meet varied curing requirements.

Big Rolling Stock

For the dynamic big rolling stock industry (commercial vehicles, busses, agricultural and construction equipment, rail and aerospace), we have developed a comprehensive portfolio of water-borne and solvent-borne resins for primers, top coats, clear coats and direct-to-metal coatings (one and two component systems), based on our longstanding partnerships with customers. And our in-depth knowledge of polyester, acrylic, alkyd, and urethane chemistries. These products provide reliable protection for the exterior of airplanes that people travel in. They make commuter trains look better and last longer. Our deep expertise in materials science, big rolling stock applications and sustainable coatings can help you move confidently from solvent-based to water-based systems for use on commercial vehicles, agricultural, construction and earthmoving equipment, railway, aerospace and military vehicles. To significantly reduce solvent pollution and make a lasting difference for people and our planet.

Protective / Marine

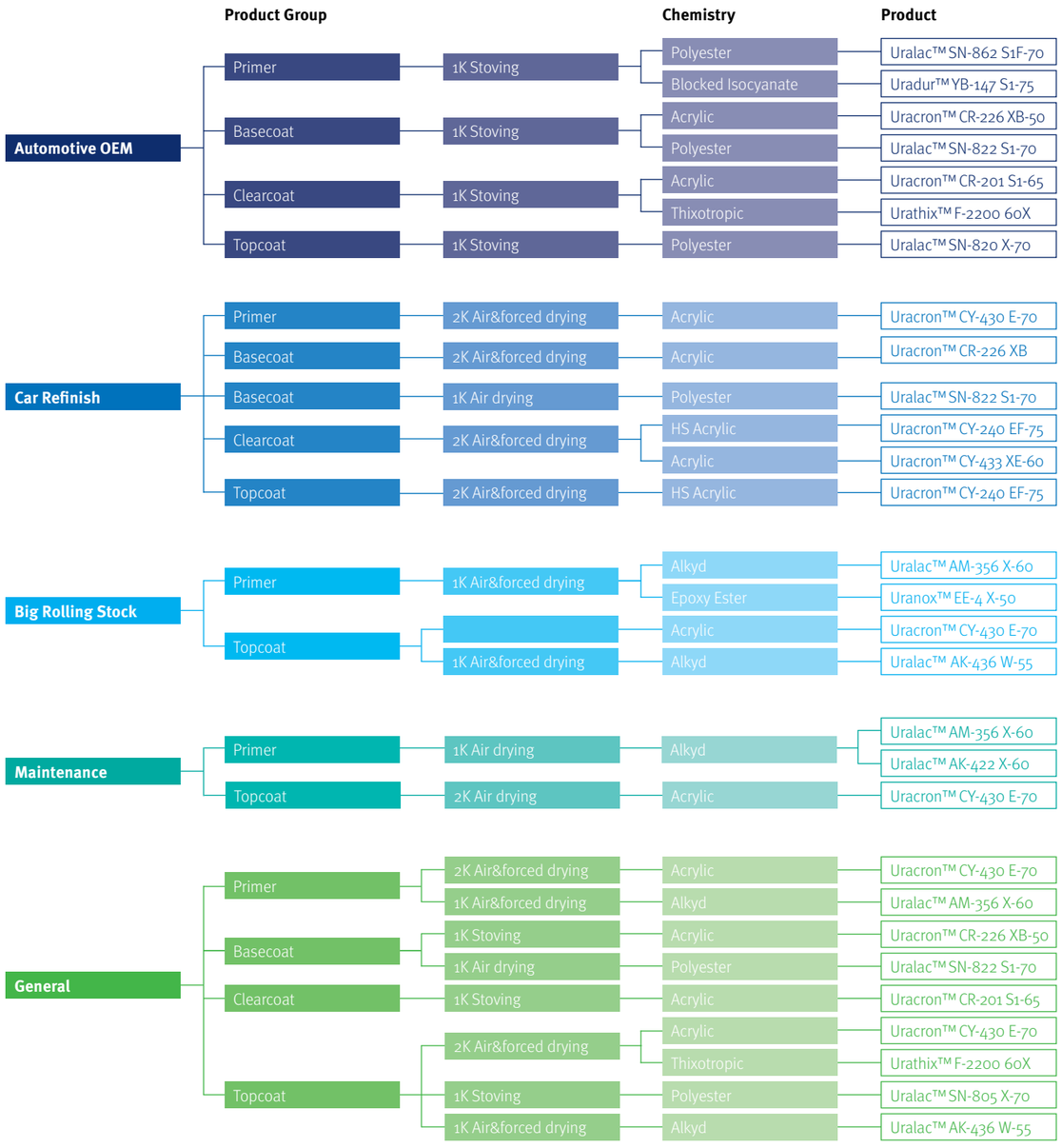
We work with customers across the protective and marine industry to develop water-borne and solvent-borne primers and top coats that make a positive difference in people's lives. From bridges to oil platforms to wind turbines and other outdoor equipment. Our unique expertise of high performance applications and materials science, including polyester, acrylic, alkyd, and urethane chemistries, makes our resins perform consistently in the toughest indoor and outdoor conditions, in every corner of the world. That gives us safer bridges to cross and ocean liners to cruise on. It protects your manufacturing facilities longer to extend their operational life. It also provides a powerful shield to defend valuable equipment against the harshest environmental forces. Together we can help you swiftly develop innovative coatings to meet new environmental, cost or performance requirements.

General metal

We have the experience and know-how to work across industries. Thanks to our broad applicational expertise in resins and coatings for diverse protective and industrial areas, our unique materials science knowledge and our deep customer collaborations. Our broad technology base for general metal includes polyester, acrylic, alkyd, and urethane chemistries. We deliver water-borne and solvent-borne primers and top coats for virtually any end market, including construction materials, machinery and equipment, drums, domestic appliances, metal furniture and anything else. And you can use our resins in coatings for a variety of applications and curing processes. That means you can safely work with industrial equipment in any environment because it will not break down from exposure to industrial grade oils and fats. And with the metal well protected, you can more confidently ship metal drums without worrying about the contents being damaged by rust, corrosion or external forces.

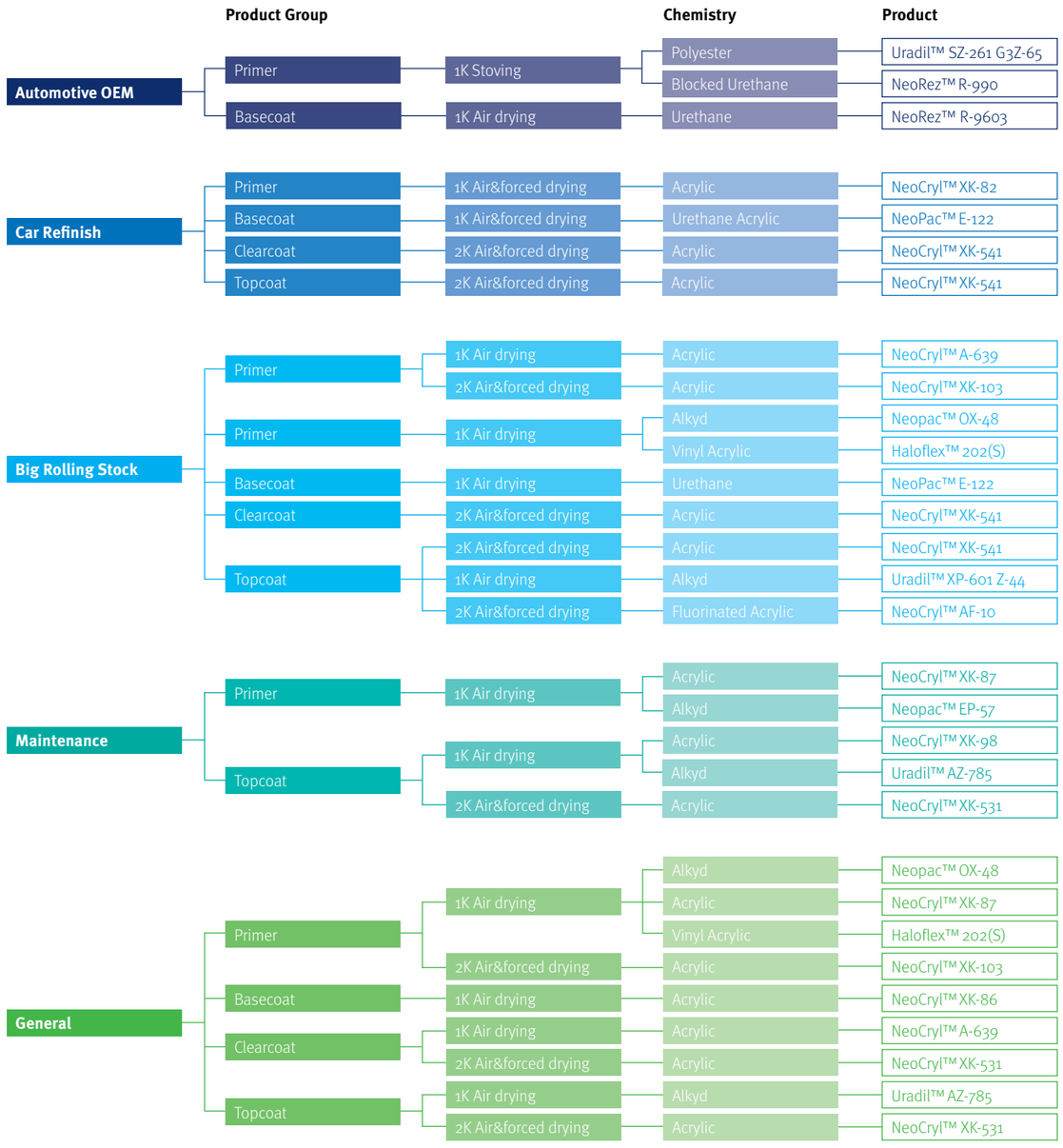
Product Selection Guide

Solvent-borne



Product Selection Guide

Water-borne



Acrylic solvent-borne

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	OH% on (solid resin)	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Uracron™ F-12 60X-BAC	60X-BAC	15-30	0-5	1.2	Hydroxy acrylic resin for Primer, Clear and Solid Topcoats for General Industry	**Curing time, weathering and chemical resistance, adhesion on non ferrous metals, elasticity, toughness**	●		●	●			●	●				●			CY23019 (Grey Primer) CY23020 (Black Primer)
Uracron™ F-18 NV 60BAC	60BAC	7-17	0-5	1.8	Hydroxy acrylic resin for Primer, Clear and Solid Topcoats for General Industry	**Curing time, weathering and chemical resistance, adhesion on non ferrous metals, good flexibility, high hardness**	●		●	●			●	●				●			CY23018 (2K Primer)
Uracron™ F-27 60SOLA	60SOLA	40-60	4-10	2.7	Hydroxy acrylic resin for Primer, Clear and Solid Topcoats for General Industry	**Curing time, weathering and chemical resistance, adhesion on non ferrous metals, high hardness**	●		●	●			●	●				●			On request
Uracron™ FH-28 70BAC	70BAC	15-25	0-5	2.7	High solid hydroxy acrylic resin for Primer, Clear and Solid Topcoats for General Industry	**Curing time, weathering and chemical resistance, adhesion on non ferrous metals, high hardness, long potlife**	●		●	●			●	●				●			CY31017 (Semi Gloss) CY31020 (High Gloss)
Uracron™ CY-134 E-70	E-70	30-55	0-10	3.4	High solid hydroxy acrylic for Clear and Solid Topcoats for Car Refinish and General Industry	**VOC 440 g/l as sole binder, good hardness (R.T. and 60°C drying), excellent gloss, good combination resin with Uracron CY140 and CY150**			●	●			●			●		●			CY35037 (CR Clear)
Uracron™ CY-240 EF-75	EF-75	35-65	6-10	4.0	High solid hydroxy acrylic resin for Car Refinish: - 2K HS Clearcoat and Topcoat	**VOC 420 g/l as sole binder, good hardness (R.T. and 60°C drying), excellent gloss, excellent weathering resistance**			●	●			●	●		●	●	●		●	CY35042 (CR Clear)
Uracron™ CY-250 E-75	E-75	30-50	7-11	5.0	High solid hydroxy acrylic resin for Car Refinish: - 2K HS Clearcoat and Topcoat	**VOC 420 g/l as sole binder, good hardness (R.T. and 60°C drying), excellent gloss, good chemical and weathering resistance**			●	●			●	●		●	●	●		●	CY35043 (CR Clear), CY35049 (CR Topcoat White)
Uracron™ CY-430 E-70	E-70	40-60	6-10	3.0	High solid hydroxy acrylic resin for 2K Primers and Topcoats for Transportation coatings, Machinery and other high quality Protective and Maintenance coatings	**Solid content, gloss, adhesion compatibility, drying speed**	●		●	●			●	●		●	●	●	●	●	CY32001 (Primer/Surfacer), CY35025 (CR540 filler), CY35001 (Topcoat)
Uracron™ CY-433 XE-60	XE-60	60-85	5-10	4.5	Hydroxy acrylic resin for 2K Topcoat for General Industry, Car Refinish, Commercial Vehicles, Marine and Protective	**Curing time, weathering resistance, yellowing resistance, chemical resistance, petrol resistance**			●	●			●	●		●	●	●	●	●	CY31001 (Clear)
Uracron™ CY-450 S1E-65	S1E-65	55-80	4-8	4.2	Hydroxy acrylic resin for 2K Topcoats for General Industry, Car Refinish, Machinery and Protective	**Sprayability, drying speed, weathering resistance**			●	●			●	●		●	●	●	●	●	CY32003 (CR Surfacer)
Uracron™ CY-463 E-50	E-50	33-48	15-25	2.0	Hydroxy acrylic resin for 2K Primers and Topcoats for Car Refinish, Machinery and Protective	**Compatibility, very high reactivity, potlife stackability, yellowing resistance**	●		●	●			●	●		●	●	●	●	●	CY32004 (Primer/Filler), CY32005 (Primer/Filler)
Uracron™ CY-468 XF-60	XF-60	35-55	3-8	1.8	Hydroxy acrylic resin for 2K Primers and Topcoats for Car Refinish, Machinery and Protective	**Flexibility, drying speed, weathering resistance**	●		●	●			●	●		●	●	●	●	●	CY30001 (CR Topcoat), CY35007 (Topcoat)
Uracron™ CY-472 E-57	E-57	30-70	6-12	1.7	Hydroxy acrylic resin for Medium solids clear and pigmented primers and topcoats Industrial paints, Car repair systems	**Solid content, reactivity, chemical resistance, yellowing resistance**	●		●	●			●	●		●	●	●	●	●	CY25028 (High Gloss Topcoat)
Uracron™ CY-474 E-70	E-70	35-55	4-8	4.2	Hydroxy acrylic resin for 2K Clear and Topcoats for General Industry, Car Refinish, Machinery, Protective and Plastic	**Solid content, drying at RT hardness, chemical and weathering resistance**			●	●			●	●		●	●	●	●	●	CY3003 (HS Topcoat White), CY31007 (Clear), CY35002 (GI Topcoat)
Uracron™ CY-499 E-75	E-75	55-75	4-8	4.2	Hydroxy acrylic resin for 2K High Solid, stoving and forced drying Topcoats. Car refinish, General industrial, Machinery paints, Off shore and Industrial coatings	**Compatibility adhesion, solid content, weathering resistance, chemical resistance**			●	●		●	●	●		●	●	●	●	●	CY29003 (Red Topcoat), CY30004 (HS Topcoat)

Acrylic solvent-borne stoving

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	OH% on (solid resin)	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	Self X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Uracron™ CR-201 S1-65	S1-65	10-18	4-7	3.6	Thermosetting hydroxy acrylic resin for use in Automotive base/clear/top coats and one coat metallic	**Solids content, weathering resistance**		●	●	●		●				●		●	●			CR46001, CR46003, CR46004, CR49001, CR49002
Uracron™ CR-226 XB-50	XB-50	7.5-10.5	10-14	1.8	Thermosetting hydroxy acrylic resin for use in Automotive base/clear/top coats as well as stoving enamels for general industry	**Weathering resistance, compatibility (with CAB), scratch resistance**		●	●	●		●				●		●	●			On request
Uracron™ CS-206 S2B-52 ND	XB-52	13-19	10-17		Thermosetting acrylic resin for stoving enamels for domestic appliances and general industry	**Flexibility, detergent resistance, adhesion, high build**				●		●		●						●			On request

Acrylic water-borne 2K

	Supply form	Viscosity (mPa.s @ 25°C)	pH	OH% on solids	MFT (°C)	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
NeoCryl™ AF-10	Z-30 DPnB	10	6.6	3.9	0	Emulsion for application in 2 component anti-graffiti coatings	**Very resistant to graffiti cleaning agents, resistant against solvents, petrol, acids and alkaline, high gloss**			●	●		●	●					●		●	M-400 (Clearcoat), M-440 (White Topcoat), M-485 (Topcoat Roller/Brush)
NeoCryl™ XK-101	Z-40	60	7	2.5	23	Hydroxyl functional emulsion for use in metal coatings	**Water, solvent and chemical resistant, transparency UV and scratch resistant**			●	●		●	●					●			D-1505 (High Gloss Topcoat), D-1860 (Texture)
Neocryl™ XK-103	Z-45	100	7.1	3.2	45	2K Water-borne acrylic emulsion for primer/topcoat	**Good adhesion on steel, fast drying, scratch resistant**	●			●			●			●		●	●		M-1060 (Filler), M-1061 (Structure), M-1062 (Primer), M-1063 (Topcoat)
Neocryl™ XK-530	Z-40S1G3	<800	7.5	3.3	< 5	2K Water-borne acrylic emulsion for topcoat/clearcoat	**Standard reference topcoat ACE/GM; high bfft**	●		●	●			●	●		●	●	●	●		M-1040 (Black Topcoat), M-1041 (Clearcoat), M-1042 (White Topcoat)
NeoCryl™ XK-531	Z-40	< 300	7.5	3.3	23	2K Water-borne acrylic emulsion for topcoat/clearcoat	**Co-solvent free XK-530; high bfft, high resistance**	●		●	●			●	●		●	●	●	●		M-1050 (Topcoat), M-1051 (Clearcoat)
NeoCryl™ XK-540	Z-40S1G3	< 300	7.5	4.2	< 5	2K Water-borne acrylic emulsion for topcoat/clearcoat	**Market reference rail clear coat, very good chemical and weathering resistance, very high gloss, high bfft**			●	●			●		●	●	●	●	●	●	M-1020 (White Topcoat), M-1021 (Clearcoat), M-1022 (Black Topcoat), M-1023 (Brush)
NeoCryl™ XK-541	Z-40	< 300	7.5	4.2	< 5	2K Water-borne acrylic emulsion for topcoat/clearcoat	**Co-solvent free; high bfft, high resistance**			●	●			●		●	●	●	●	●	●	M-1030 (Clearcoat), M-1031 (Topcoat), M-1032 (Silk Gloss Topcoat)
NeoCryl™ XK-555	Z-40	< 300	7.5	5.0	26	2K Water-borne acrylic emulsion for topcoat/clearcoat	**Extreme resistances & durability, grafity resistance, skydrol resistance**			●	●			●		●	●	●	●	●	●	M-1070 (Clearcoat), M-1071 (Topcoat)

Acrylic water-borne

	Supply form	Viscosity (mPa.s @ 25°C)	pH	MFT (°C)	Description	Main feature	Adhesion promotor	Rust Convertor	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	(Self)X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Neocryl™ A-633	Z-42	100	8.2	55	Acrylic styrene copolymer emulsion with a good balance in hardness, chemical resistance and adhesion for use in metal, plastic, wood and concrete coatings	**Hard and abrasion resistant, rapid hardness development, adhesion to steel and several plastics, good gloss**			●			●	●					●			●			D-560 (Topcoat), D-2440 (AC Primer), D-2445 (DTM)
Neocryl™ A-639	Z-45	230	6.5	67	APEO free acrylic styrene copolymer emulsion for use in clear and pigmented coatings (such as metal, plastic and wood primers) to give excellent alcohol resistance	**Clear, hard and alcohol resistant, adhesion to wide range of plastics (PS, PA, ABS, PPO, PC), high gloss and water resistant**			●		●	●	●								●			D-2426 (Water-borne AC Primer), D-2427 (Water-borne Topcoat), D-2428 (Water-borne DTM)
NeoCryl™ HX-39	Z-25.5	175			Polyacrylic acid solution polymer in water for use in metal pre-treatmnet and as protective colloid	**Adhesion to steel and aluminum**	●		●												●	●		On request
NeoCryl™ XK-12	Z-45	75	8.0	29	Self cross-linking emulsion for industrial topocoats	**Water, chemical, alcohol and wet heat resistant, very block resistant, high gloss and transparent, no yellowing in QUV, outdoor durable, scratch resistant**					●	●	●			●					●			D-670 (topcoat)
NeoCryl™ XK-62	Z-42	75	8.1	29	Wide variety of applications where high water and humidity resistance is required	**Clear, hard and humidity resistant, adhesion to metals and corrosion resistance, adhesion to many plastics**			●		●	●	●								●	●	●	D-2450 (grey AC Primer), D-2448 (Black AC Primer), D-314 (Repair Finish)
NeoCryl™ XK-68	Z-47.5	300	4.2	35	Hydroxyl containing emulsion for use in rust convertors	**Hardness, excellent rust converting properties, good adhesion on corroded steel**		●	●				●		●						●	●		RC-006 (rust convertor)
NeoCryl™ XK-82	Z-40	60	8.2	44	Wide variety of applications where high water and humidity resistance is required	**Clear, hard and humidity resistant**			●			●	●								●	●		D-790 (AC Primer) HD-120 (High build AC primer)
NeoCryl™ XK-85	Z-40	150	9.2	19	Low particle size emulsion designed for variety of applications high water and humidity resistance is required where corrosion,	**High gloss as clearcoat, adhesion to metals, corrosion and humidity resistance**			●		●		●								●	●		D-1127 (AC Clear), D-1665 (AC Primer), D-1515 (AC Primer)
NeoCryl™ XK-86	Z-42.5	30	7.2	31	Emulsion designed for high performance coatings for steel protection and various general metal applications	**Hard, transparent, high gloss and retention corrosion, humidity and salt spray resistance, excellent wet adhesion to aluminum and (galvanized) steel, adhesion to many plastics, outdoor durable**			●	●	●	●	●						●	●	●	●		D-1990 (Topcoat), D-1855 (Direct to Metal), M-610 (Metallic Basecoat)
NeoCryl™ XK-87	Z-51	250	7.4	27	High solids emulsion designed for variety of applications where corrosion, high water and humidity resistance is required	**Dry and wet adhesion to metals, corrosion and humidity resistance**			●		●		●								●	●		D-2400 (AC Primer), HD-130 (High build AC primer)
NeoCryl™ XK-90	Z-45	75	8.7	<0	Acrylic modified emulsion for industrial coatings with low coalescent demand and good blocking resistance	**Tough (hard and flexible) and outdoor durable, high block resistance, wet adhesion to many substrate (incl. aged alkyds), alcohol and water resistance**			●		●	●	●				●				●	●	●	D-2447 (Topcoat)
NeoCryl™ XK-98	Z-44	150	7.5	7	Self-crosslinking acrylic copolymer emulsion designed for fast drying and blocking resistant (clear and opaque) coatings	**Good blocking resistance at high film thickness, good early water resistance, good alkaline resistant and wet adhesion, non yellowing good adhesion on PVC, good sagging resistant**						●	●			●					●			On request
NeoCryl™ XK-205	Z-42	40	7.5	55	APEO free emulsion with good balance in hardness, good chemical resistance and adhesion used for topcoats	**Hard and abrasion resistance, very rapid hardness, development adhesion to steel and several plastics, high gloss**			●		●	●	●				●				●		●	On request

Acrylic beads

	Supply form	Acid value (mgKOH/g)	Tg (°C)	Softening point (°C) ring & ball method	Mw	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
NeoCryl™ B-723	>98	5.5	54	180	200000	Solid Acrylic BMA/MMA copolymer. For use in Clear and pigmented coatings for metal and plastics. Upgrading of vinyl, NC and chlorinated rubber systems. Printing inks and aluminum lacquers	**Excellent coulour retention and outdoor durability, water and moisture resistant, heat resistant, adhesion to metals and plastics**			●	●	●								●	●		-
NeoCryl™ B-725	>98	6.0	63	155	50000	General purpose solid BMA/MMA Acrylic copolymer for clear and pigmented coatings in Marine, Protective, Structural, Car Refinish and Road application. Also on plastics, concrete, wood and primed metals	**Hard, though, flexible and clear, outdoor durable, heat and alkaline resistant, fast solvent release**	●		●	●	●				●	●	●	●	●	●	●	-
NeoCryl™ B-731	>98	1.5	56	140	55000	Solid IBMA Acrylic copolymer with excellent solubility in white spirit for use in combinations with alkyd resins	**Combination resin for alkyds to improve drying time and durability, adhesion to plastics, fast drying. Tough and flexible**	●		●	●	●				●	●		●				-
NeoCryl™ B-735	>98	11	74	160	40000	Solid BMA/MMA Acrylic copolymer with good solubility and chemical resistance for use in variety of coatings for Marine, Protective, Car Refinish industry. Also for Aerosol applications	**Tough (hard and flexible) and clear, petrol and plasticizer resistant, adhesion to metals and plastics**			●	●	●					●		●				-
NeoCryl™ B-864	>98	<1	65	175	160000	Solid Acrylic IBMA homopolymer with excellent free flowing properties for use in Aerosol applications. Crazy strings applications	**Excellent free flowing due to presence of anti-caking silica, clear, tough but flexible film, stable with Alu and bronze pigments**			●	●	●							●				-

Alkyd solvent-borne

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	Oil type	Oil length (%)	Phthalic Anhydride (%)	OH% on (solid resin)	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Uralac™ B-32 75BAC	75 BAC	10-13	<15	Vegetable	32	37	2.4	High Solid short-oil polyester resin modified with specific plant-derived fatty acids for use in rapid drying primers and topcoats as well as 2K PUR, stoving and NC systems	**Rapid drying, outstanding adhesion, elasticity, hardness**	●			●	●	●	●			●		●			On request
Uralac™ AD-525 X-60	X-60	54-66	6-12	TOFA	42	40		General purpose drying alkyd	**Broad compatibility with amino resins, quick solvent release, sandability, economical**				●	●							●			AD25002 (Topcoat), AD25018 (1K Clear), AD25011 (1K Clear), AD25015 (Nitro lacquer), AD47001
Uralac™ AK-422 X-60	X-60	65-78	5-10	Soya Bean Fatty Acid	31	40	3.2	Short-oil chainstopped alkyd resin based on soya bean fatty acids for machinery, car refinish primers and topcoats for air and forced drying	**Pigment wetting, drying speed and recoatability**	●		●	●	●	●						●			On request
Uralac™ AK-424 X-60	X-60	36-47	4-9	Soya Bean Fatty Acid	22	39	2.5	Short oil chainstopped alkyd based on soya bean fatty acids for topcoats and primers for General Industry and Machinery, forced air and stoving application	**Drying speed, yellowing resistance, adhesion**	●		●	●	●	●						●			On request
Uralac™ AK-429 X-60	X-60	34-45	5-10	Soya Bean Fatty Acid	40	27	2.7	Short oil chainstopped alkyd resin for machinery, radiator and commercial vehicles topcoats and can be used as 1K, 1K stoving and 2K drying	**Drying speed, outdoor durability, gloss level**			●	●	●							●	●		On request
Uralac™ AK-436 W-55	W-55	60-80	5-10	Soya Bean Fatty Acid	49		1.9	Topcoats and primers for General Industry, Car refinish and radiator enamals	**Pigment wetting, gloss retention, yellowing resistance, outdoordurability**	●			●	●							●	●		AK09002 (High Gloss Topcoat), AK06003 (AC Primer)
Uralac™ AL-210 Q-55	Q-55	30-45	0-6	Soya bean oil	56			Polyurethane modified long-oil alkyd based on soya bean oil for use as garden furniture topcoat	**Drying speed, through drying, yellow resistance and outdoor durability**	●			●	●							●	●		On request
Uralac™ AM-356 X-60	X-60	60-85	10-20	Linseed and Tung Oil	34	37		Phenolic modified short oil alkyd based on linseed oil and tung oil for anti corrosive Primer and filler, one coat system for metal coatings	**Drying speed, adhesion, water resistance, corrosion resistance**	●			●	●							●			On request
Uralac™ AN-600 X-60	X-60	40-53	5-10	Coconut oil	33	46	4.2	Car repair: cellulose nitrate enamels	**Gloss level, yellowing resistance, chemical resistance**			●	●		●				●		●			AN47002 (Topcoat)
Uralac™ AN-620 X-70	X-70	50-60	5-10	Synthetic fatty acids	31	40	4	Short oil alkyd based on synthetic fatty acids for General industrial stoving topcoats	**Gloss level, yellowing resistance, outdoor durability**			●	●		●						●			On request
Uralac™ AR-206 Q-56	Q-56	20-35	0-6	Vergetable oils	56			Polyurethane modified medium oil alkyd resin based on vegetable oils for yacht varnishes and marine paints	**Water resistance, flexibility**			●	●	●							●	●		On request

Alkyd water-borne

	Supply form	Viscosity (mPa.s)	pH	Oil type	Oil length (%)	OH% on (solid resin)	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Neopac™ OX-47/40W	40W	30-160	7.0-8.5			1.0	Aqueous anionic emulsion of a specially modified polyurethane resin for yellowing-resistant air and forced drying paints and baked coatings on various primers; and in one-coat paints on steel and aluminum	**Rapid physical drying, good water and chemical resistance, outstanding adhesion/elasticity characteristics, very good flow, good gloss and hardness**				●	●	●		●				●		●	AZ09129 (high gloss)
Neopac™ OX-48/40W	40W	30-160	7.0-8.5			1.0	Aqueous anionic emulsion of a modified aromatic polyurethane for oxidative drying (rapid touch drying) anti-corrosion primers for industrial use. Suitable as single-coat paints for dark color shades on steel, alu and various plastics	**Rapid touch drying and moderate hardness with good elasticity, good corrosion protection, good early water resistance, good shear resistance, free of co-solvents and emulsifiers**	**3**			●	●	●							●		●	D-2408 (primer)
Neopac™ OX-87/40W	40W	30-160	7.0-8.5				Aqueous anionic emulsion of a specially modified polyurethane resin for primers and fillers for steel. 1K rapid drying paints with early water resistance for alu and steel	**Rapid physical drying and high hardness, good adhesion/ elasticity characteristics, good resistance to various media, very good wetting of wood and pigments**	**3**			●	●								●		●	On request
Neopac™ EP-57/40W	40W	30-450	7.0-8.5			2,0	Co-solvent free aqueous anionic, epoxy modified aromatic polyurethane emulsion used for rapid drying oxidatively drying anti-corrosion primers	**Adhesion on zinc, shear resistant, corrosion, flexibility, good earaly water resistance, co-solvent and emulsifier free**	**3**				●			●			●	●	●		●	D-2406 (primer)
Uradil™ AZ-554 Z-50	Z-50	100-600	5.5-7.5	Soya Bean Fatty Acid	40		Medium oil alkyd emulsion based on soya-bean fatty acids for interior and exterior primers and topcoats. Co-solvent and amine free	**Drying speed and gloss level, yellowing resistance, durability, sprayability**	**3**			●	●							●			AZ06032 (primer)
Uradil™ XP-601 Z-44	Z-44	200-450	6.0-8.0	linoleic rich Fatty Acids/Oils	25	1.7	Polyurethane modified short oil alkyd emulsion based on linoleic rich fatty acid/oils for Industrial metal primers	**Drying speed, salt spray resistance, non-lifting**	**3**				●							●			AZ06028 (primer)
Uradil™ AZ-760	Z-53	100-1000	7-9	Soya bean Fatty Acid	40	2,0	Medium oil alkyd emulsion based on soyabean fatty acids for interior and exterior primers and topcoats and corrosion resistant primers	**Application behaviour like solvent-borne alkyd, levelling, drying speed, gloss, hardness, blocking resistance, durability and water resistance**	**3**			●	●			●				●		●	AZ09128 (high gloss)
Uradil™ AZ-785	Z-52	100-1000	6-8	Soya bean Fatty Acid	40	2,0	Medium oil alkyd emulsion based on soyabean fatty acids for interior and exterior primers and topcoats and corrosion resistant primers	**Application behaviour like solvent-borne alkyd, levelling, drying speed, gloss, hardness, blocking resistance, durability and water resistance**	**3**			●	●			●				●		●	On request
NeoPac™ PU-480 Z-42	Z-42	100-1000	7-8.5			1,2	Aliphatic modified polyurethane disperion for interior and exterior paints for metal applications	**Levelling, gloss level and gloss retention, drying speed, hardness and blocking resistance, water resistance, durability**				●	●			●				●			PU09003 (high gloss)

Amino solvent-borne

	Supply form	Viscosity (dPa.s @ 23°C)	Description	Main feature	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Uramex™ BF-891 S2B-77 ND	S2B-77 ND	100-180	n-Butylated benzoguanamine formaldehyde resin	**Mechanical properties, low/medium reactivity, low free formaldehyde content**	●					●		●		●			●			On request
Uramex™ BF-892 B-68	B-68	04-06	n-Butylated benzoguanamine formaldehyde resin for automotive primer surfacer	**Reactivity, mechanical properties**	●					●		●		●			●			On request
Uramex™ MF-821 B-84	B-84	100-155	High reactive n-Butylated melamine formaldehyde resin for primer, basecoat and topcoat formulations	**Solids content, gloss level, compatibility**	●	●	●	●		●		●		●	●		●			CR49002 (Clear), CR49002 (Clear)
Uramex™ MF-822 B-72	B-72	100-130	Very high reactive n-Butylated melamine formaldehyde resin for primer, basecoat and topcoat formulations	**Sterilisation resistance, reactivity, mechanical properties**	●	●	●	●		●		●		●	●		●			CR46001 (Metallic), CR46003, CR46004
Uramex™ MF-836 M	M	06-10	Very high reactive n-Butylated melamine formaldehyde resin for primer, basecoat and topcoat formulations	**Outdoor durability, flow, reactivity**	●	●	●	●		●		●		●	●		●			On request
Uramex™ MF-863 B1-68	B1-68	90-130	High reactive iso-Butylated melamine formaldehyde resin for primer, basecoat and topcoat formulations	**Reactivity, outdoor durability**	●	●	●	●		●		●		●	●		●			On request

Epoxyester

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	Oil type	Oil length (%)	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Uranox™ EE-4 X-50	X-50	4-7.5	0-4	DCO	40	Epoxyester resin based on dehydrated castor oil fatty acids. Air dry and stoving primers for Protective coatings (chassis). Primers and Fillers for Automotive coatings	**Adhesion, flexibility, chemical resistance**	●				●	●					●	●	●		EE07001 (Zinc dust primer)
Uranox™ EV-12 W-60	W-60	45-57	0-12	Tall oil/DCO	40	Vinyltoluene modified Epoxyester resin based on low rosin tall oil and dehydrated castor oil. Air drying and stoving primers and topcoats for protective and maintenance systems	**Adhesion, chemical and abrasion resistance**	●			●	●	●						●	●		On request

Isocyanate solvent-borne

	Supply form	Viscosity (dPa.s @ 23°C)	NCO%	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Uradur™ YB-146 M1-80 ND	M1-80 ND	45-75	6,7	Blocked aromatic polyisocyanate resin for thick heavy duty coatings as underbody car protection	**Stone chip resistance, heavy duty coatings**	●					●		●		●			●			On request
Uradur™ YB-147 S1-75	S1-75	20-40	11,1	Blocked aliphatic polyisocyanate resin for Automotive primer surfacer/topcoat and General industry topcoats	**Flexibility, chemical resistance, adhesion, stone chip resistance**	●		●	●		●		●		●			●			On request

Isocyanate water-borne

	Supply form	Viscosity (dPa.s @ 23°C)	NCO%	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
NeoRez™ R-990	Z-40 NMP	600	6	A water-borne blocked aliphatic urethane dispersion. Crosslinks with hydroxyl or carboxyl containing polymers under stoving conditions to upgrade mechanical properties	**Stone chip resistance and levelling, solvent resistance, mechanical properties**	●					●		●		●			●			On request

Polyester solvent-borne

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	pH	OH% on (solid resin)	Tg °C	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Uralac™ SC-960 E-75	E-75	20-30	5-10		7.4		Acrylic saturated polyester for 2K polyurethane coatings for aerospace & protective coatings	**Gloss, levelling, flexibility, chemical and weather resistance**			●	●			●			●	●	●	●		SC35001 (White Topcoat)
Uralac™ SC-963 XE-60	XE-60	30-50	0-15		6.3		Acrylic modified polyester for stoving and 2K coatings	**High chemical resistance, outdoor durability, meets German army standards**			●	●		●						●			On request
Uralac™ SN-805 X-70	X-70	30-40	4-8		2.6	0	Saturated polyester resin for General industry stoving enamels	**Adhesion to steel and aluminium, solid content, outdoor durability**			●	●		●			●			●			SN47001 (Brass Clear)
Uralac™ SN-820 X-70	X-70	40-60	9-12		2.7	8	Saturated polyester resin for General industry:steel and aluminium coating for in- and outdoor applications. Solid color topcoats	**Reactivity, low cure, flexibility, hardness**	●	●		●		●			●			●		●	On request
Uralac™ SN-822 S1-70	S1-70	60-80	3-6		2.4	17	Saturated polyester resin for Automotive: primer surfacer and metallic base coat	**Adhesion, flexibility**	●	●	●	●		●			●			●			SN48102 (CR Basecoat) SN48101 (Non Sand Primer)
Uralac™ SN-862 S1F-70	S1F-70	30-60	4-6		3.3	8	Saturated polyester resin for automotive primer and surfacers	**Flexibility and chemical resistance**	●		●	●		●	●		●			●			On request
Uralac™ SY-941 X-95	X-95	120-160	4-8		5.8		Saturated polyester in combination with polyisocyanate resins for normal and forced-drying, two-component polyurethane systems including softfeel	**Solids content, adhesion (metal and plastics), flexibility, outdoor durability**			●	●			●			●	●	●			SY38001 (Topcoat), SY38002 (Topcoat)
Uralac™ SY-942 F-65	F-65	55-75	0-8		7.7	37	Saturated polyester resin for 2K polyurethane coatings for aerospace, industrial finishes and protective coatings.	**Gloss level, UV and weathering resistance**			●	●			●			●	●	●	●		SY38002 (Topcoat), SY38003 (Topcoat)
Uralac™ SY-943 E-75	E-75	50-110	2-8		5,8		Saturated polyester resin for 2K polyurethane coatings for aerospace, industrial finishes and protective coatings	**Gloss level, UV and weathering resistance**			●	●			●			●	●	●	●		SY38004 (White Topcoat)
Uralac™ SY-946	100	7.5-10	7-12		7.3		Saturated polyester resin for 2K polyurethane coatings for industrial finishes, protective and plastic coatings	**Solid content (low VOC coatings)**	●		●	●		●			●			●			CY35037 (VOC Topcoat)

Polyester water-borne

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	pH	OH% on (solid resin)	Tg °C	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Uradil™ SZ-255 G3Z-65	G3Z-65	75-175	40-50	7.5-8.5	3.5	0	Water dilutable saturated polyester resin for General industry: stoving enamels for interior and exterior use	**Gloss level, flexibility, outdoor durability**	●		●	●		●			●			●			SZ47002 (Red Topcoat), SZ47003 (White Topcoat), SZ47005 (Black Topcoat)
Uradil™ SZ-261 G3Z-65	G3Z-65	100-250	40-50	6.5-7.5	3.5	8	Water dilutable saturated polyester resin for General industry: stoving enamels for interior and exterior use	**Gloss level, flexibility, outdoor durability**		●			●		●		●		●		●		SZ47005 (DTM Topcoat), SZ47008 Topcoat), SZ47009 (Topcoat)

Urethane water-borne

	Supply form	Viscosity (mPa.s @ 25°C)	pH	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	(Self)X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Neorez™ R-961	Z-34 NMP	300	8.0	Hard and flexible polyurethane dispersion for use in variety of applications	**Hard, flexible, chemical and abrasion resistant, elongation 270%, König hardness 130 sec, water, humidity and UV resistant, adhesion to metal and plastics such as PVC, ABS and PC**			●	●	●								●			D-388 (Med Gloss Black Topcoat)
NeoRez™ R-1005	Z-39	140	7.2	Flexible, APEO free, solvent free polyurethane dispersion for use in a variety of applications. Flexibilising resin for Acrylic emulsions	**Tough and flexible, elongation 460%, König hardness 30 sec**			●	●	●						●		●			On request
NeoRez™ R-986	Z-35 NMP	100	8.0	Hard chemical resistant polyurethane dispersion for use in high performance topcoats	**Hard and abrasion resistant, high gloss, elongation 160%, König hardness 200 sec, water, humidity, solvent and UV resistant, adhesion to plastics such as PVC and PC**			●	●	●								●			D-282 (Stoving Topcoat)
NeoRez™ R-9603	Z-34	180	7.7	Aliphatic urethane polymer for base coat application	**Good compatibility with CAB, good re-coatability**		●								●						On request

Urethane acrylic water-borne

	Supply form	Viscosity (mPa.s @ 25°C)	pH	MFT (°C)	Description	Main features	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	(Self)X-linker	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
NeoPac™ E-122	Z-35 NMP	100	8.0	29	Aliphatic urethane acrylic copolymer dispersion for metal topcoat applications	**Tough (hard and flexible) and clear non yellowing, outdoor durable chemical and abrasion resistant, highly water and alcohol resistant**		●	●	●	●							●	●	●			D-885 (Medium Gloss Topcoat); M-615 (Metallic Basecoat)
NeoPac™ E-125	Z-35.5 NMP	100	8.0		Aliphatic urethane acrylic copolymer dispersion for metal topcoat applications	**Tough and flexible, non yellowing, neutral appearance**			●	●	●			●						●			On request

Thixotropic solvent-borne resins

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	OH% on (solid resin)	Description	Main features	Additive	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Urathix™ F-2200 60X	60X	Thixotropic	0-5	1.9	Thixotropic hydroxyl acrylic for 2K coatings as anti-settling & anti-sag additive/ resin or structured applications	**Weathering resistance, Thixotropic, chemical resistance**	●	●		●	●			●	●	●	●		●	●		CY31027
Urathix™ F-2702 60X	60X	Thixotropic	0-5	2.5	Thixotropic hydroxyl acrylic for 2K coatings as anti-settling & anti-sag additive/ resin or structured applications	**Weathering resistance, Thixotropic, chemical resistance**	●	●		●	●			●		●	●	●	●	●	●	CY35039
Urathix™ NT-5002 60BAC	60BAC	Thixotropic	0-12	4.3	Thixotropic hydroxyl alkyd for 2K and Stoving Coatings as anti-settling & anti-sag additive/resin or structured applications	**Broad compatability, combination with amino's and isocyanates, strong thixotropic, excellent pigment wetting, yellowing resistant**	●	●		●	●		●	●		●			●	●		CY31026
Urathix™ B-3201 60X	60X	Thixotropic	0-15	1.9	Thixotropic hydroxyl alkyd for 1K, 2K and Stoving Coatings as anti-settling & anti-sag additive/resin or structured applications	**Broad compatability, combination with amino's and isocyanates, strong thixotropic**	●				●	●	●	●	●				●	●	●	AD15008, AD15009

Vinyl acrylic copolymer

	Supply form	Viscosity (mPa.s @ 25°C)	pH	MFT (°C)	Description	Main features	Rust Convertor	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Start formulations
Haloflex™ 202	Z-60	50	1.5	12	Latex designed for use where good barrier properties are essential	**Very good barrier to water vapour, oxygen, carbon dioxide and radon, excellent salt spray resistance, non flammable, resistant to bacterial growth**	●	●				●				●		●	●	●	●	D-2435 (AC Primer), RC-156 (Rust Converter)
Haloflex™ 202S	Z-59	50	1.5	12	Pre-stabilized latex designed for use where good barrier properties are essential	**Very good barrier to water vapor, oxygen, carbon dioxide and radon, excellent salt spray resistance, non flammable, resistant to bacterial growth**	●	●				●				●		●	●	●	●	D-1295 (Red AC Primer), RC-160, RC-125 (Rust convertor)

Additives solvent-borne

	Supply form	Viscosity (dPa.s @ 23°C)	Acid value (mg KOH/g solid resin)	Description	Main feature	Flow Additive	Adhesion promotor	Rust Convertor	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
Urad™ DD-27 ND	S2B ND	10-20	0-3	Urad™ DD-27 ND is an acrylic polymer that prevents all kinds of surface defects such as cratering, pinholing, colour difference and brushmarks. Urad™ DD-27 ND is the ethylglycol-free modification of Urad™ DD-25	**Anti-cratering, levelling properties, silicone free**	●			●		●	●		●	●		●			●	●		On request
Urad™ DD-79	73	70-100	40-60	Urad™ DD-79 is a epoxy phosphate ester resin to improve adhesion and corrosion resistance in water-borne systems	**Humidity, corrosion, chemical, stain and pasteurisation resistance, adhesion**		●						●	●		●	●	●	●	●			●	SZ47007
Urad™ AC-100	75 BAC	22.5 - 32.5	0-2	Non drying acrylic resin with marked softening properties and good compatibility	**Increases elasticity and flow**	●								●	●		●	●		●			On request

Additives water-borne

	Supply form	Viscosity (dPa.s @ 23°C)	pH	Description	Main feature	Flow Additive	Adhesion promotor	Rust Convertor	Primer/Surfacer	Basecoat	Clearcoat	Topcoat	1K	1K Stoving	2K	ACE	Automotive OEM	Car Refinish	Commercial Vehicles	General Metal	Maintenance	Railway	Formulations
NeoCryl™ BT-24	Z-45	25	5.3	Alkaline soluable acrylic copolymer emulsion for use as pigment grinding application and temporary coatings for road marking and automobiles	**Fast cohesive strength and water resistance development, tough, flexible and glossy with good substrate wetting and adhesion**				●			●	●		●				●			●		D-710 D-855 D-1855 D-1990
Atrust™ RC-50	Z-15 M1	750	7	Organic oxime chelating agent dispersion for use in rust conversion coatings	**Converts surface corrosion into passive, hydrophobic layer conversion coatings are overcoatable with water-borne and solvent-borne finishes**			●												●	●		RC-125, RC-156, RC-160

Abbreviations	
1K	1 component system
2K	2 component system
ABS	acrylonitril butadieen styreen
APEO	alkylphenolethoxylates
B	n-butanol
B1	iso-butanol
BAC, E	butylacetate
BFFT	blister free film thickness
BMA	butylmethacrylate
CAB	cellulose acetate butyrate
CR	car refinish
DCO	dehydrated castor oil
EA	ethylacrylate
F	methoxypropylacetate
G3	butylglycol
HS	high solids
IBMA	isobutylmethacrylate
M	mixture of solvents
MMA	methylmethacrylate
ND	naphthalene depleted
NMP	n-methylpyrrolidone
NV	low viscosity
PC	poly carbonate
PPO	poly phenylene oxide
PS	polystyrene
PVC	poly vinyl chloride
Q	de-aromatized white spirit D40
S2	solvent naphta 150 ND
SOLA, S1	solvent naphta 100
TOFA	tall oil fatty acid
TPA	thermoplastic acrylic
VOC	volatile organic component
W	white spirit, water
X	xylene
Z	water

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