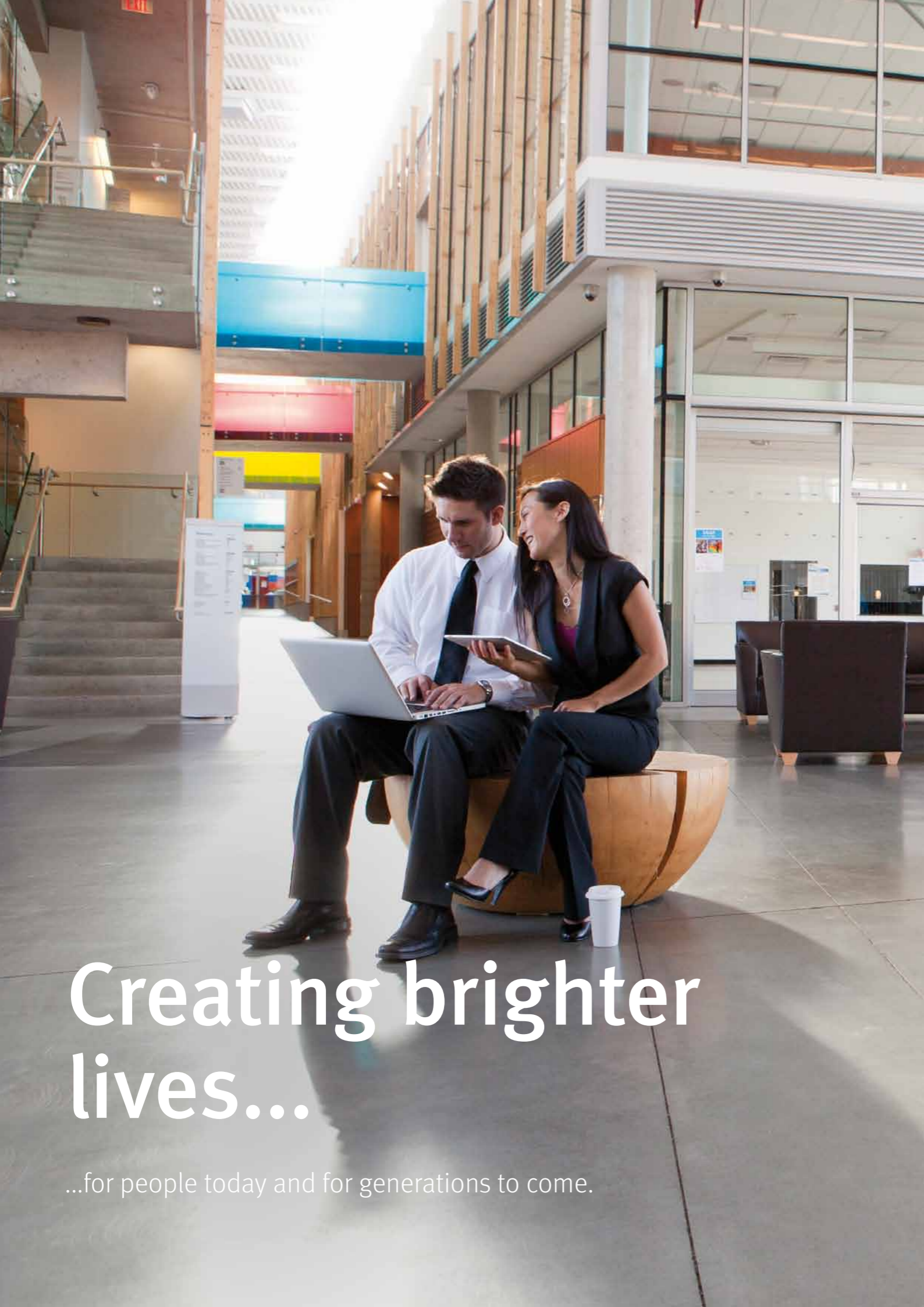




Advanced Polymer Technologies for
Plastic coatings



Creating 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.

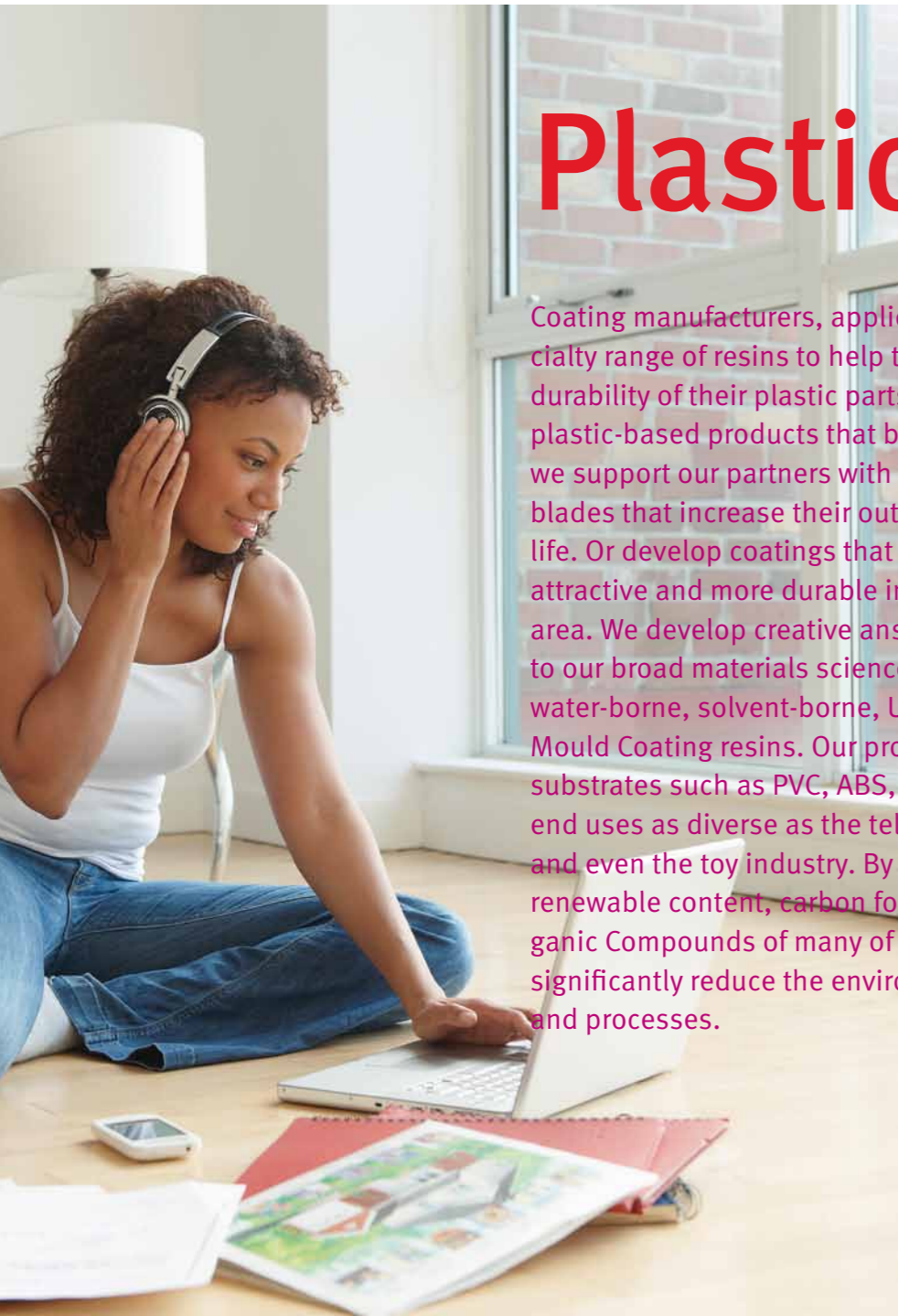
DSM for coating resins

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.



Plastics

Coating manufacturers, applicators, and OEMs rely on our specialty range of resins to help them improve the performance and durability of their plastic parts. The result is new innovations in plastic-based products that brighten people's lives. For example, we support our partners with greener coatings for wind turbine blades that increase their output and lengthen their in-service life. Or develop coatings that make a linoleum floor look more attractive and more durable in a home, office, or child's play area. We develop creative answers to your challenges, thanks to our broad materials science and applications knowledge, in water-borne, solvent-borne, UV curing resins, and powder In Mould Coating resins. Our products are applied as coatings to substrates such as PVC, ABS, polyamide, and polystyrene for end uses as diverse as the teletronics, automotive, computer, and even the toy industry. By communicating the percentage of renewable content, carbon footprint, and amount of Volatile Organic Compounds of many of our resins, we help our customers significantly reduce the environmental impact of their products and processes.



Automotive interior

For plastic parts used inside cars we have developed a comprehensive portfolio of water-borne, solvent-borne, 100% UV and powder coating resins that can be applied as primers and top coats. Thanks to these products, consumers can enjoy soft leather seats that are protected against dirt and stains. They don't have to worry about their dashboard being ruined by their sun tan lotions and hand creams. They can enjoy cleaner air quality from coatings that contain no Volatile Organic Compounds. Our deep expertise in materials science, plastics applications for automotive interiors, and sustainability aspects can help you transfer from solvent-based to water-based or 100% UV curing coatings. To improve flexibility, chemical resistance, adhesion, and soft feel. Or significantly reduce solvent pollution and make a lasting difference for consumers as well as our planet.



Automotive exterior

Take advantage of our full spectrum of solvent-borne, water-borne, 100% UV and powder coating resins to meet the most demanding coating requirements for automotive exterior parts. We work closely with leading suppli-



ers to the automotive industry to create new innovations that improve coating performance yet lower the environmental impact. The result? A sustainable coating for headlamps that withstands the harshest weathering and road conditions. A primer for bumpers that is green and robust. Let our unique materials science and applications expertise in sustainable plastic coatings inspire you to produce coatings for automotive parts in a greener way.

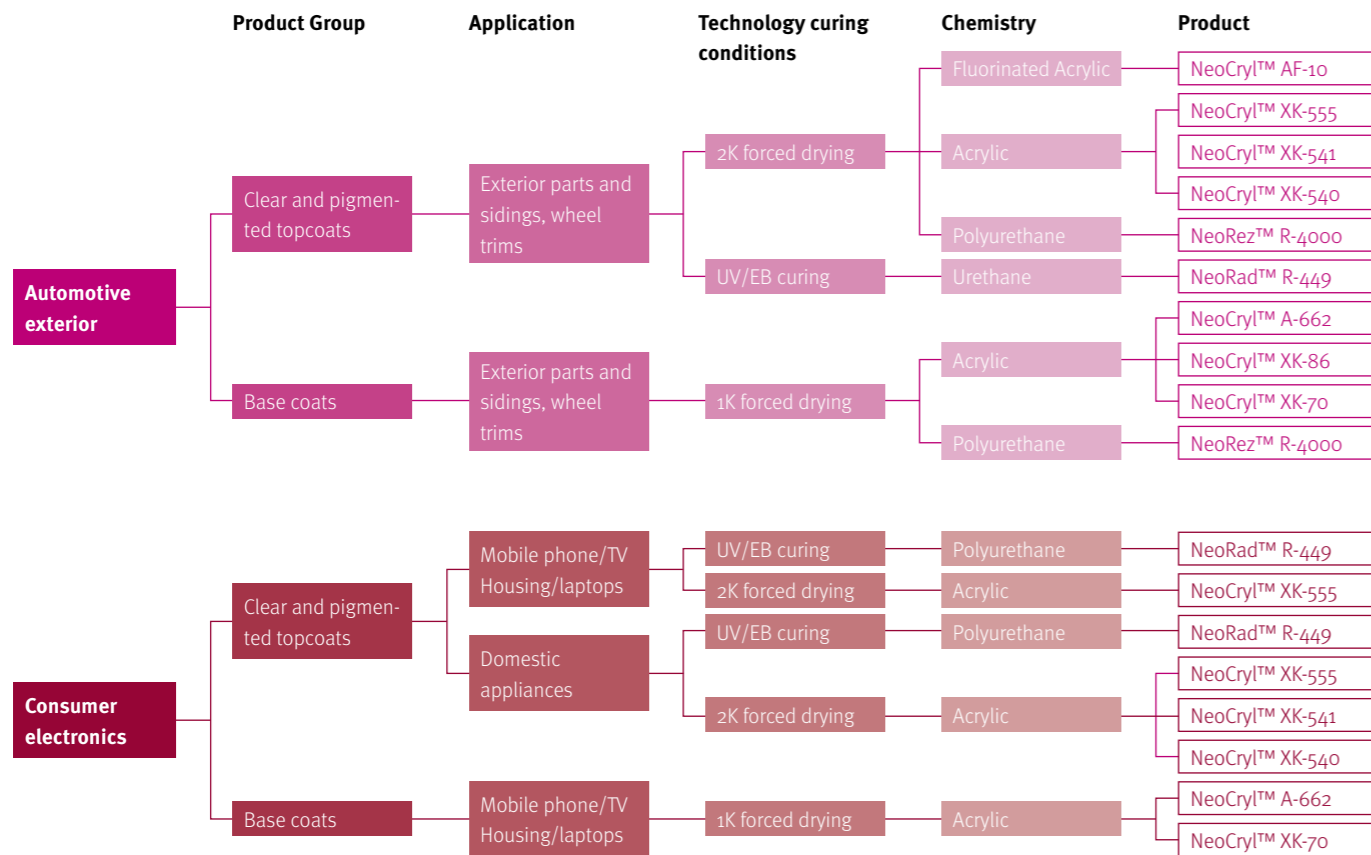
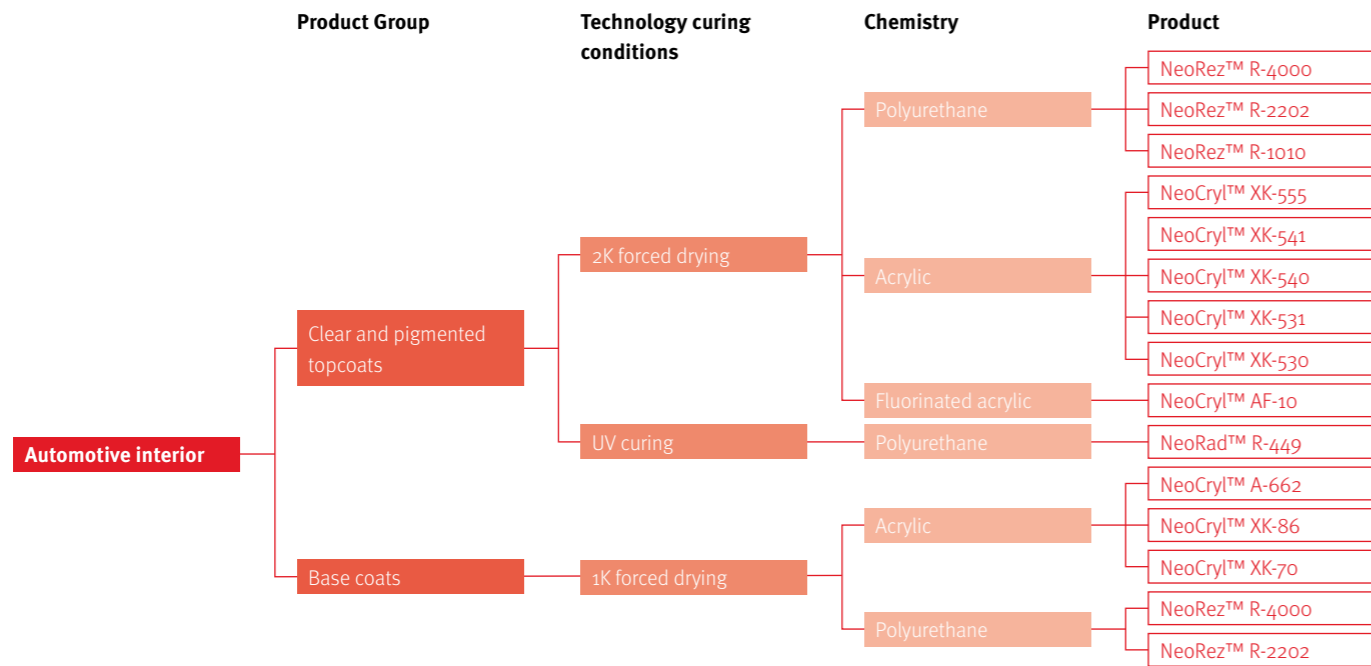
Consumer electronics

Making flat screen TV housings better able to withstand the bumps and scratches of busy family life. Giving a mobile phone a soft and smooth feel that resists stains and everyday wear. Such modern day conveniences are the result of intense collaborations with our customers to develop specialty resins for the consumer electronics industry. Our unique knowledge of consumer applications and plastics materials enables us to provide meaningful innovations in plastic coatings that perform effectively and consistently. We deliver

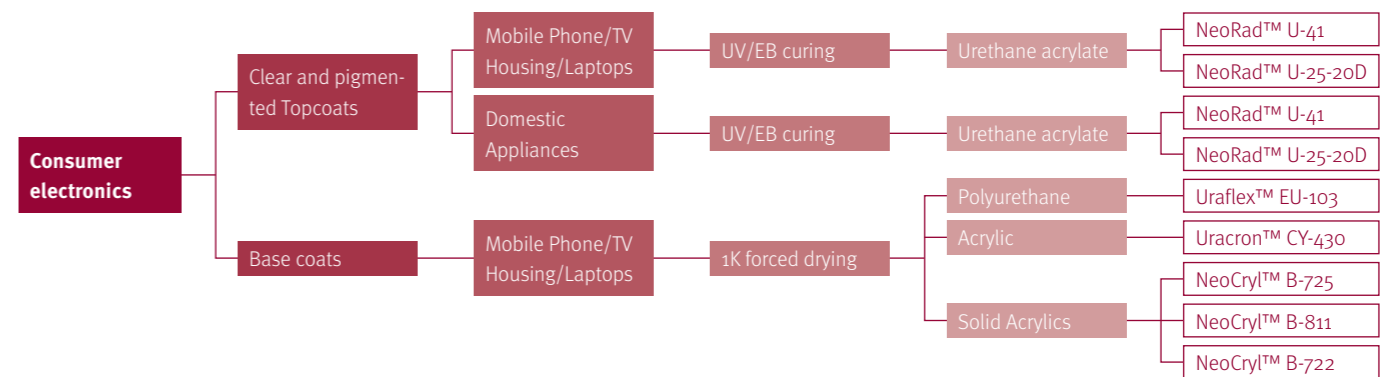
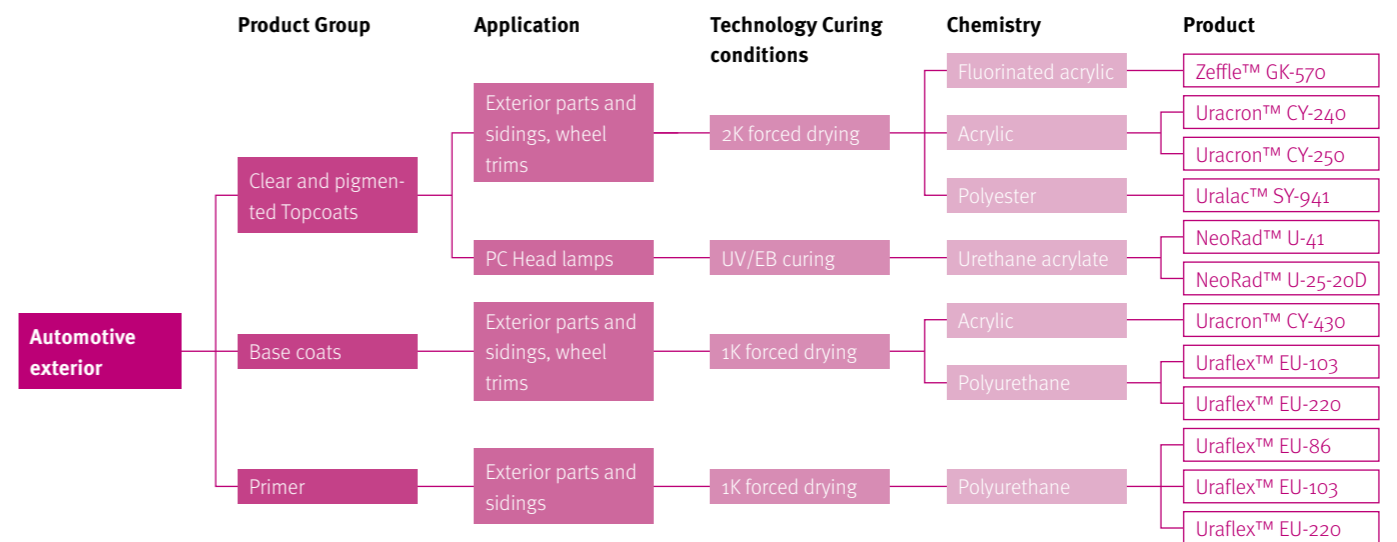
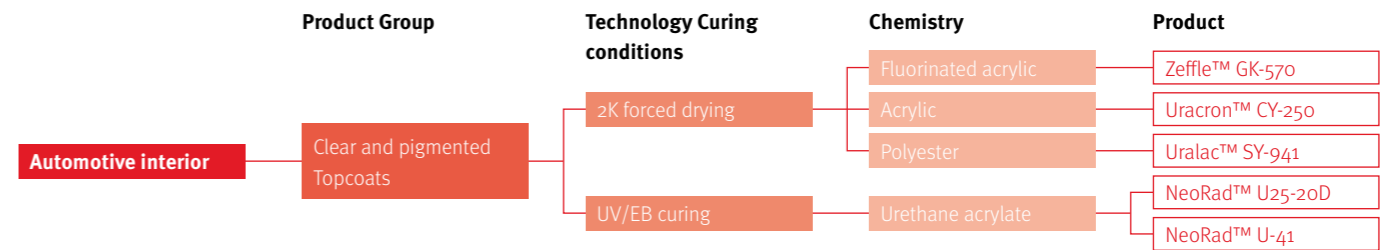


solvent-borne, water-borne, and 100% UV curing resins for primers, base coats, and top coats that can be tailored to the individual's needs. Our knowledge can help our customers progress towards more sustainable coatings and production processes.

Plastics product selector
Water-borne



Plastics product selector
Solvent-borne



Automotive interior

	Solids (%)	pH	MFT	Hydroxyl	Tg (°C)	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	Hydrolysis resistance	Good adhesion	Abrasion resistance	Meets VW -TL226 specifications	Meets GM 14445 resistance	Skydrol resistance	Formulation guidelines
Basecoats																										
NeoCryl™ A-662	40	7.5	90			Water		Hard high alcohol resistant dispersion for metallic and solid colour topcoats and basecoats, good adhesion to PS,HiPS, ABS and PC	●												●	●				On request
NeoCryl™ XK-70	45	9.2	33			Water	General purpose universal acrylic dispersion	Good adhesion to a range of plastics types in Metallic, Clear or Pigmented topcoats	●												●					On request
Topcoats																										
NeoRez™ R-4000	35	8.5				Water	NMP free, hard, high resistance polycarbonate polyurethane dispersion	Hydrolysis, hand and sun cream, DEET resistant resin meets GM14445 and VW TL226 OEM interior specifications in Metallics, Clear and pigmented topcoats, good adhesion to ABS/PC/PVC and ABS-PC blends	●					●				●		●	●	●	●	●		On request
NeoRez™ R-2202	35	8.5				Water	NMP free, high resistance polycarbonate polyurethane dispersion	High abrasion resistance, high chemical resistant topcoats - Good adhesion to most plastics	●						●				●		●	●		●		On request
NeoCryl™ AF-10	30	6.6	<0	3.9		Water	2K fluorinated acrylic dispersion for anti graffiti and easy clean applications	Low surface energy, Easy clean for anti graffiti topcoats	●					●							●	●	●			On request
NeoCryl™ XK-555	40	7.8	26	5	26	Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability	●					●							●	●	●	●	●	On request
NeoCryl™ XK-541	40	7.8	<5	4.2	11	Water	2K acrylic emulsion for topcoats and clearcoats	Co-solvent free, chemical resistant topcoats with high durability and good flow	●					●							●	●		●	●	On request
NeoCryl™ XK-540	40	7.8	<5	4.2	11	Water	2K acrylic emulsion for topcoats and clearcoats	Chemical resistant topcoats with high durability and good flow	●					●							●	●		●	●	On request
NeoCryl™ XK-531	40	7.8	23	3.3	26	Water	2K acrylic emulsion for topcoats and clearcoats	General purpose cosolvent free emulsion with good level of resistances	●					●							●	●		●	●	On request
NeoCryl™ XK-530	40	7.8	<5	3.3	26	Water	2K acrylic emulsion for topcoats and clearcoats	General purpose emulsion with good level of performance	●					●							●	●		●	●	On request
NeoRez™ R-1010	32	8				Water	Soft feel special effect polyurethane dispersion for interior tactile coatings	Soft feel topcoats for special effect topcoats	●						●						●	●				On request
Uracron™ CY-250 E-75	75			5		Butyl acetate	High solids hydroxy acrylic resin for exterior clear topcoats	High hardness, scratch , chemical and UV resistance clear coats for interior and exterior applications		●				●							●	●	●	●	●	On request
Uralac™ SY-941	95			6.2		Xylene	Saturated polyester resin for use in combination with isocyanates in 2K forced drying applications including soft feel	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●			●								●	●	●	●	●	On request

	Solids (%)	pH	MFT	Hydroxyl	Tg (°C)	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	Hydrolysis resistance	Good adhesion	Abrasion resistance	Meets VW -TL226 specifications	Meets GM 14445 resistance	Skydrol resistance	Formulation guidelines
Zeffle™ GK-570	65			5		Butyl acetate	High resistance flourinated acrylic 2K resin for high performance coatings	High resistant very flexible tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●				●						●	●	●	●	●		On request
NeoRad™ R-449	30	8.0				Water	High performance UV/EB curing polyurethane dispersion for high performance topcoats	High performance, high resistant clear and pigmented topcoats meeting OEM interior specifications for resistances for DEET, hand cream and sun block	●			●								●	●	●	●	●		On request
NeoRad™ U-25-20D	100						Di-functional, highly flexible urethane acrylate oligomer for topcoats	Abrasion resistant highly flexible oligomer with good adhesion to most plastics				●			●					●	●	●	●	●		On request
NeoRad™ U-41	100						Hexa-functional hard high performance urethane acrylate for high performance topcoats	Hard, abrasion and chemical resistant oligomer with excellent mechanical properties, good adhesion to PS, HiPS, ABS, PC and other common plastics				●			●					●	●	●	●	●		On request
Aircraft Interior																										
NeoCryl™ XK-555	40	7.8	26	5	26	Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability	●											●	●	●			●	On request
Uralac™ SY-941	95			6.2		Xylene	Saturated polyester resin for use in combination with isocyanates in 2K forced drying applications including soft feel	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●			●							●	●	●			●	On request
Zeffle™ GK-570	65			5		Butyl acetate	High resistance fluorinated acrylic 2K resin for high performance coatings	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●										●	●	●			●	On request

Automotive exterior

	Solids (%)	Viscosity (mPas) @ 23°C	pH	OH % (on solid)	Isocyanate modification	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	High chemical resistance	Long durability	Fast drying	Good adhesion	Good hardness	Solvent free	Formulation guidelines
Primer surface																										
Uraflex™ EU-86	35	7-12			Aromatic	Xylene	Solvent-based elastomeric urethane with good adhesion	Excellent adhesion to common plastics types, brilliant metallic and deep glossy blacks	●						●						●	●	●	●		On request
Uraflex™ EU-103 M4	30	64-90			Aliphatic	Mixture of sec-Butanol/xylene/solvesso 100	Solvent-based elastomeric urethane with good adhesion	Excellent adhesion to most plastics as a primer	●						●						●	●	●	●		On request
Uraflex™ EU-220 M1	30	3.0-6.5			Aliphatic	Mixture of butylacetate/NMP	Solvent-based elastomeric urethane with good adhesion	Excellent adhesion, good mechanical properties, can be crosslinked with isocyanates	●						●						●	●	●	●		On request
Basecoats																										
NeoRez™ R-4000			8-9.5			Water	NMP free hard, high resistance polycarbonate polyurethane dispersion	Hydrolysis, hand and sun cream, DEET resistant resin meets GM14445 and VW TL226 OEM interior specifications in Metallics, Clear and pigmented topcoats, good adhesion to ABS/PC/PVC and ABS-PC blends	●						●			●		●		●	●	●	●	On request
NeoCryl™ XK-86	35	7-12	7.2			Water	1K acrylic dispersion	Excellent adhesion to common plastics types, brilliant metallic and deep glossy blacks	●						●							●	●		●	On request
Uraflex™ EU-103 M4	30	64-90			Aliphatic	Mixture of sec-Butanol/xylene/solvesso 100	Solvent-based elastomeric urethane with good adhesion	Excellent adhesion to most plastics as a primer	●						●							●	●			On request
Uraflex™ EU-220 M1	30	3.0-6.5			Aliphatic	Mixture of butylacetate/NMP	Solvent-based elastomeric urethane with good adhesion	Excellent adhesion, good mechanical properties, can be crosslinked with isocyanates	●						●					●		●	●	●		On request
Uracron™ CY-430 E-70	70	40-60		3		Butyl Acetate	Hydroxy acrylic with good yellowing resistance for primers, basecoats and topcoats	High solids fast drying, excellent adhesion on most plastics	●						●							●	●	●		On request
Clear Topcoats																										
NeoCryl™ XK-555	40	<300	7.8	5		Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability												●	●	●	●	●	●	On request
NeoCryl™ XK-541	40	<300	7.8	4.2		Water	2K acrylic emulsion for topcoats and clearcoats	Co-solvent free, chemical resistant topcoats with high durability with improved flow	●					●							●	●	●	●	●	On request
NeoCryl™ XK-540	40	<300	7.8	4.2		Water	2K acrylic emulsion for topcoats and clearcoats	Chemical resistant topcoats with high durability with improved flow	●					●							●	●	●	●	●	On request
Uracron™ CY-240 EF-75	75	35-65		4		Butyl acetate/MPA	High solids hydroxy acrylic resin for exterior clear topcoats	Hard, scratch, chemical and UV resistance clear coats for interior and exterior applications	●					●						●	●	●	●	●	●	On request
Uracron™ CY-250 E-75	75	30-50		5		Butyl acetate	High solids hydroxy acrylic resin for exterior clear topcoats	High hardness, scratch, chemical and UV resistance clear coats for interior and exterior applications	●					●						●	●	●	●	●	●	On request

	Solids (%)	Viscosity (mPas) @ 23°C	pH	OH % (on solid)	Isocyanate modification	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	High chemical resistance	Long durability	Fast drying	Good adhesion	Good hardness	Solvent free	Formulation guidelines
Uralac™ SY-941	95	120-160		6,2		Xylene	Saturated polyester resin for use in combination with isocyanates in 2K forced drying applications including soft feel	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance					●							●	●	●	●	●		On request
Zeffle™ GK-570	65	55-65		5		Butyl acetate	High resistance fluorinated acrylic 2K resin for high performance coatings	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●				●						●	●	●	●	●		On request
NeoRad™ U-25-20D	100	25000			Aliphatic		Di-functional highly flexible urethane acrylate oligomer for topcoats	Abrasion resistant, highly flexible oligomer with good adhesion to most plastics				●			●					●	●		●	●	●	On request
NeoRad™ U-41	100	10000			Aliphatic		Hexa-functional, hard, high performance urethane acrylate for high performance topcoats	Hard, abrasion and chemical resistant oligomer with excellent mechanical properties, good adhesion to PS, HiPS, ABS, PC and other common plastics				●			●					●	●		●	●	●	On request
PC Head Lamps																										
NeoRad™ U-41	100	100000			Aliphatic							●			●					●	●	●	●	●	●	On request
Wheel Trims Primer/Basecoat																										
NeoCryl™ A-662	40	20	7,5			Water	1K hard acrylic dispersion	Hard, high alcohol resistant dispersion for metallic and solid colour topcoats and basecoats, good adhesion to PS, HiPS, ABS and PC	●											●		●	●	●	●	On request
NeoCryl™ XK-70	45	100	9,2			Water	General purpose universal acrylic dispersion	Good adhesion to a range of plastics types in Metallic, Clear or Pigmented topcoats	●					●								●	●		●	On request
Uraflex™ EU-220 M1	30	3,0-6,5			Aliphatic	Mixture of butylacetate/NMP	Solvent-based elastomeric urethane with good adhesion	Excellent adhesion, good mechanical properties, can be crosslinked with isocyanates		●					●					●	●	●	●	●		On request
Uracron™ CY-430 E-70	70	40-60		3		Butyl Acetate	Hydroxy acrylic with good yellowing resistance for primers, basecoats and topcoats	High solids, fast drying, excellent adhesion on most plastics		●				●							●	●	●	●		On request
Wheel Trims Topcoats																										
NeoCryl™ XK-555	40	<300	7,8	5		Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability	●					●						●	●		●	●	●	On request
NeoCryl™ XK-541	40	<300	7,8	4,2		Water	2K acrylic emulsion for topcoats and clearcoats	Co-solvent free, chemical resistant topcoats with high durability and good flow	●					●						●	●	●	●	●	●	On request
NeoCryl™ XK-540	40	<300	7,8	4,2		Water	2K acrylic emulsion for topcoats and clearcoats	Chemical resistant topcoats with high durability and good flow	●					●						●	●	●	●	●		On request
Uracron™ CY-240 EF-75	75	74-76				Butyl acetate/MPA	High solids hydroxy acrylic resin for exterior clear topcoats	Hard, scratch , chemical and UV resistance clear coats for interior and exterior applications		●				●						●	●	●	●	●		On request

	Solids (%)	Viscosity (mPas) @ 23°C	pH	OH % (on solid)	Isocyanate modification	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	High chemical resistance	Long durability	Fast drying	Good adhesion	Good hardness	Solvent free	Formulation guidelines
Uracron™ CY-250 E-75	75	30-50		5		Butyl acetate	High solids hydroxy acrylic resin for exterior clear topcoats	High hardness, scratch , chemical and UV resistance clear coats for interior and exterior applications		●				●						●	●		●	●		On request
Uralac™ SY-941	95	120-160		6.2		Xylene	aaturated polyester resin for use in combination with isocyanates in 2K forced drying applications including soft feel	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●			●							●	●		●	●		On request
Zeffle™ GK-570	65	50-60		5		Butyl acetate	High resistance fluorinated acrylic 2K resin for high performance coatings	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance		●				●						●	●	●	●	●		On request

Consumer electronics

	Solids (%)	Viscosity (mPas) @ 23°C	OH % (on solid)	pH	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	Good hardness	Good scratch	Good pencil hardness	Good adhesion	Good alcohol resistance	Meets specifications for mobile phones
Domestic Appliances																								
NeoCryl™ A-662	40	20		7.5	Water	1K hard acrylic dispersion	Hard, high alcohol resistant dispersion for metallic and solid color topcoats and basecoats, good adhesion to PS/HIPS/ABS and PC	●					●						●	●	●	●	●	
NeoCryl™ XK-555	40	<300	5	7.8	Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability	●					●						●	●	●	●	●	
NeoCryl™ XK-541	40	<300	4	7.8	Water	2K acrylic emulsion for topcoats and clearcoats	Co-solvent free, chemical resistant topcoats with high durability and good flow	●					●						●	●	●	●	●	
NeoCryl™ XK-540	40	<300	4	7.8	Water	2K acrylic emulsion for topcoats and clearcoats	Chemical resistant topcoats with high durability and good flow	●											●	●	●	●	●	
NeoRad™ R-449	30	50		8.0	Water	High performance UV/EB curing polyurethane dispersion for high performance topcoats	High performance, high resistant clear and pigmented topcoats meeting OEM interior specifications for resistance against DEET, hand cream and sun block	●			●			●					●	●	●	●	●	
NeoRad™ U-25-20D	100	25000				Di-functional highly flexible urethane acrylate oligomer for topcoats	Abrasion resistant, highly flexible oligomer with good adhesion to most plastics				●			●						●	●	●	●	
NeoRad™ U-41	100	100000				Hexa-functional, hard, high performance urethane acrylate for high performance topcoats	Hard, abrasion and chemical resistant oligomer with excellent mechanical properties, good adhesion to PS/HIPS/ABS/PC and other common plastics				●			●					●	●	●	●	●	
Laptops and TV Housing																								
NeoCryl™ XK-555	40	<300	5	7.8	Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability	●					●						●	●	●	●	●	
NeoCryl™ XK-541	40	<300	4	7.8	Water	2K acrylic emulsion for topcoats and clearcoats	Co-solvent free, chemical resistant topcoats with high durability and good flow	●					●						●	●	●	●	●	
NeoCryl™ XK-540	40	<300	4	7.8	Water	2K acrylic emulsion for topcoats and clearcoats	Chemical resistant topcoats with high durability an good flow	●					●						●	●	●	●	●	
NeoRad™ R-449	30	50		8	Water	High performance UV/EB curing polyurethane dispersion for high performance topcoats	High performance, high resistant clear and pigmented topcoats meeting OEM interior specifications for resistance against DEET, hand cream and sun block	●			●			●					●	●	●	●	●	
NeoRad™ U-25-20D	100	25000				Di-functional, highly flexible urethane acrylate oligomer for topcoats	Abrasion resistant, highly flexible oligomer with good adhesion to most plastics				●			●						●	●	●	●	
NeoRad™ U-41	100	100000				Hexa-functional, hard, high performance urethane acrylate for high performance topcoats	Hard, abrasion and chemical resistant oligomer with excellent mechanical properties, good adhesion to PS/HIPS/ABS/PC and other common plastics				●			●					●	●	●	●	●	
Mobile Phone Devices Basecoats																								
NeoCryl™ A-662	40			7.5	Water	1K hard acrylic dispersion	Hard, high alcohol resistant dispersion for metallic and solid color topcoats and basecoats, good adhesion to PS/HIPS/ABS and PC	●					●						●	●	●	●	●	
NeoCryl™ XK-70	45			9.2	Water	General purpose universal acrylic dispersion	Good adhesion to a variety of plastic types in metallic, clear or pigmented topcoats	●					●						●			●		
Uraflex™ EU-103 M4						Solvent based elastomeric urethane with good adhesion	Excellent adhesion to most plastics as a primer		●					●										

	Solids (%)	Viscosity (mPas) @ 23°C	OH % (on solid)	pH	Solvents	Description	Main benefit(s)	Water-borne	Solvent-borne	Powder	UV	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	Good hardness	Good scratch	Good pencil hardness	Good adhesion	Good alcohol resistance	Meets specifications for mobile phones
Uracron™ CY-430 E-70	70	40-60				Hydroxy acrylic with good yellowing resistance for primers, basecoats and topcoats	High solids, fast drying, excellent adhesion to most plastics		●				●						●	●	●	●		
NeoCryl™ B-725	100					General purpose BMA/MMA copolymer for clear and pigmented systems	Universal acrylic with good allround properties		●				●						●	●	●	●		
NeoCryl™ B-811	100					Hard, high resistance MMA polymer	Good durability and high chemical resistance		●				●						●	●	●	●	●	
NeoCryl™ B-722	100					Solid acrylic EA/MA copolymer with excellent flexibility and plasticizer resistance	Very flexible with excellent adhesion to most plastics		●				●											
Mobile Phone Devices Topcoats																								
NeoCryl™ XK-555	40	<300	5	7.8	Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability	●					●						●	●	●	●	●	●
NeoRad™ R-449	30	50		8	Water	High performance UV/EB curing polyurethane dispersion for high performance topcoats	High performance, high resistant clear and pigmented topcoats meeting OEM interior specifications for resistance against DEET, hand cream and sun block	●			●			●					●	●	●	●	●	●
NeoRad™ U-25-20D	100	25000				Di-functional, highly flexible urethane acrylate oligomer for topcoats	Abrasion resistant, highly flexible oligomer with good adhesion to most plastics				●			●					●	●	●	●	●	●
NeoRad™ U-41	100	100000				Hexa-functional, hard, high performance urethane acrylate for high performance topcoats	Hard, abrasion and chemical resistant oligomer with excellent mechanical properties, good adhesion to PS/HIPS/ABS/PC and other common plastics				●			●					●	●	●	●	●	●

Wind Turbine Blades

	Solids (%)	Viscosity (mPas) @ 23°C	Acid Value (mg KOH/g)	OH % (on solid)	Solvents	Description	Main benefit(s)	Polyester	Acrylics	Urethanes	Alkyds	Aminos	Polycarbonates	Hyberbranched polymers	Erosion resistance	Good adhesion	Good durability	Oil resistance
NeoCryl™ XK-103	40	100		3.2	Water	Hydroxy acrylic dispersion	Matt formulating dispersion for high performance low gloss primers, basecoats and topcoats		●						●	●	●	●
NeoCryl™ XK-555	40	<300		5	Water	High resistant 2K acrylic emulsion for high performance topcoats and clearcoats	Co-solvent free, high chemical and high stain resistant clear topcoats with high durability		●						●	●	●	●
Uracron™ CY-474 E-70	70	36-56	5-10	4.2	Butyl Acetate	High solids general purpose acrylic	Fast drying, good durability resistant topcoats		●						●	●	●	●
Uracron™ CY-433 XE	75	60-85	4-8	4.5	Butyl Acetate	High solids general purpose acrylic	Good durability, oil resistant, non-yellowing topcoats		●						●	●	●	●
Uralac™ SY-941 X-95	95	120-160	4-8	5.8	Butyl Acetate	Saturated polyester resin for use in combination with isocyanates in 2K forced drying applications including soft feel	High resistant, very flexible, tough topcoats for use in soft or rubber feel coatings or in combination with hydroxy acrylics for improved mechanical performance											

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