



## Coatings & Adhesives North America Product Index

Baybond® | Bayhydrol® | Bayhydur® | Decovery® | Desmocap®  
Desmodur® | Desmophen® | Desmoseal® | Dispercoll® | Haloflex™  
Imprafix® | Impranil® | NeoCryl® | NeoPac™ | NeoRad™ | NeoRez®  
Pergut® | Uradil™ | Uralac®





# Table of Contents

Desmodur® – Aliphatic Crosslinkers for Polyurethanes	4	Bayhydrol®/NeoCryl® XK – Hydroxyl Functional Dispersions for 2K Waterborne Urethanes	15
Desmodur® N – HDI Biuret Crosslinkers	4	Decovery®/NeoCryl® – Waterborne Alkali Soluble Resins	16
Desmodur® N – HDI Trimer Crosslinkers	4	Bayhydrol® UA/NeoPac™ – Waterborne Polyurethane Acrylic Hybrid Dispersions	17
Desmodur® N – Low Viscosity HDI Crosslinkers	5	Bayhydrol®/Decovery®/NeoRez® – Polyurethane Dispersions	18
Bayhydur®/Crosslinker CX/Desmodur® – Water-Dispersible Crosslinkers	5	Bayhydrol® UH/Decovery®/NeoRez®/NeoPac™ – Oxidatively Curing Dispersions for 1K Systems	20
Desmodur® BL/PL – Thermoreactive Crosslinkers for 1K Polyurethane Baking Systems	6	Bayhydrol® UV/NeoRad™ R – UV-Curable Polyurethane Dispersions	21
Bayhydur® BL/Dispercoll® BL – Thermally Activated Polyurethane Hardeners	6	Uradil™ – Waterborne Alkyds	21
Desmodur® Z – IPDI Trimer Crosslinkers	7	Haloflex™ – Vinyl Acrylic Copolymer	21
Desmodur® NZ – HDI/IPDI Crosslinkers	7	Baybond® – PUR Dispersions for Glass Fiber Sizing	21
Desmodur®/NeoRez® – Aliphatic Prepolymers	8	Impranil® – Aqueous PUR Dispersions for Textile Coatings	22
Desmodur® LD – Low Functionality Crosslinkers	8	Dispercoll® U/NeoRez® R – PUR Dispersions for Adhesive and Sealant Application Areas	23
Mondur® – Aromatic Crosslinkers	8	Dispercoll® C – Polychloroprene Aqueous Dispersions for Adhesive Application Areas	23
Mondur® – Modified MDI Crosslinkers	8	Dispercoll® S Nano-Silica Additives for Dispercoll® C	23
Desmodur® L/IL/HL – Crosslinkers	9	Pergut® – Chlorinated Rubber	24
Desmodur® R – Crosslinkers	9	NeoCryl® B – Acrylic Beads	24
Desmodur®/Mondur® – TDI/MDI Prepolymers	10	Hybrane™/Uralac® – Acrylic Polyols for 2K Solventborne Urethane Coatings	26
Desmodur®/Mondur® – Polymeric MDI Crosslinkers	10	Desmophen® C – Polycarbonate Diols	26
Desmocap® – Epoxy Flexibilizers	11	NeoRez® – Polyester Polymers for Adhesive Application Areas	26
Desmoseal® – Silane Terminated Urethane Prepolymers	11	NeoRez® U – Solventborne Inks for Print and Packaging Applications	27
Mondur® MA – MDI Allophanates	11	Desmophen®/Uralac® SY – Polyester Polyols	27
Desmophen® CQ NH – Amine Functional Coreactants	12	Desmophen® – Amine Polyester Blends	27
Impranil® HS – High Solids Thermally Activated Polyurethane Hardeners for Textile Application Areas	12	Baycoll®/Desmophen® – Solvent-free Polyester Polyols	28
Imprafix® – Crosslinking Agents and Catalysts	12	Polyether Polyols	29
Impranil® – 1K Polyurethane Solutions for Textile Application Areas	12		
NeoCryl® – Waterborne Acrylic Latex	13		

## Desmodur® – Aliphatic Crosslinkers for Polyurethanes

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® H	HDI	100	—	49.7	84	3	Aliphatic oligomers, prepolymers and PUR dispersions for coatings, adhesives and elastomer applications	Provides flexibility, weather stability
Desmodur® I	IPDI	100	—	37.5	112	10	Prepolymers and PUR dispersions for coatings, elastomers, adhesives and sealant applications	Provides optical clarity, hardness, light stability, weather stability and chemical resistance
Desmodur® W	H <sub>12</sub> MDI	100	—	31.8	132	30	Prepolymers and PUR dispersions for coatings, elastomers, adhesives and sealant applications	Provides optical clarity, weather stability, superior mechanical properties and resistance to hydrolysis
Desmodur® WP 260	H <sub>12</sub> MDI	100	—	26.4	159	<500	Typical uses include tooling resins, potting, encapsulation and decorative applications	Light-stable elastomers based on PPG polyether prepolymer

## Desmodur® N – HDI Biuret Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® N 100A	HDI	100	—	22.0	191	7500	2K PUR systems for automotive refinish, wood, industrial, plastics and maintenance coatings	Outstanding weather stability, mechanical properties and gloss retention, non-yellowing, high chemical resistance, good compatibility
Desmodur® N 3200A	HDI	100	—	23.0	183	2150	2K PUR systems for automotive refinish, wood, industrial, plastics and maintenance coatings	High resistance to chemicals, outstanding mechanical properties, especially good for weather-stable and non-yellowing high solids coatings
Desmodur® N 75A BA	HDI	75	BA	16.5	255	150	2K PUR systems for automotive refinish, wood, industrial, plastics and maintenance coatings	Outstanding weather stability and gloss retention, non-yellowing, high chemical resistance, good compatibility
Desmodur® N 75A BA/X	HDI	75	BA/X (1:1)	16.5	255	150	2K PUR systems for automotive refinish, wood, industrial, plastics and maintenance coatings	Outstanding weather stability and gloss retention, non-yellowing, high chemical resistance, good compatibility
Desmodur® N 75A MPA/X	HDI	75	MPA/X (1:1)	16.5	255	150	2K PUR systems for automotive refinish, wood, industrial, plastics and maintenance coatings	Outstanding weather stability and gloss retention, non-yellowing, high chemical resistance, good compatibility

## Desmodur® N – HDI Trimer Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® 2873	HDI	100	—	12.3	356	450	Silane-modified hardener for 2K solventborne or 2K waterborne clearcoats as well as direct coatings	Improved scratch and chemical resistance, low viscosity, improved adhesion
Desmodur® N 3300A	HDI	100	—	21.8	193	2500	2K PUR systems for automotive OEM, automotive refinish, plastics and industrial coatings	Outstanding weather stability and gloss retention, non-yellowing, high resistance to chemicals and outstanding mechanical properties
Desmodur® N 3390A BA/SN	HDI	90	BA/SN 100 (1:1)	19.6	214	500	2K PUR systems for automotive OEM, automotive refinish, plastics and industrial coatings	Outstanding weather stability and gloss retention, non-yellowing, high resistance to chemicals and outstanding mechanical properties
Desmodur® N 3500	HDI	100	—	19.5	215	35000	2K PUR systems used as the hardener component for solvent-free in-mold coatings	Lightfast, scratch-resistant
Desmodur® ultra** N 3580 BA	HDI	80	BA	15.4	273	500	Primarily used in topcoats for automotive OEM and plastic coatings	Lightfast, weather-stable and scratch-resistant
Desmodur® ultra** N 3700	HDI	100	—	20	210	16000	2K PUR coating used for air and heat-drying automotive OEM, refinish and transportation coatings, as well as industrial and plastic coatings	High chemical resistance and good weather stability, very good gloss retention and outstanding mechanical properties
Desmodur® ultra** N 3790 BA	HDI	90	BA	17.8	236	1800	2K PUR systems for industrial coatings, automotive refinish, automotive OEM and plastics	High functionality, fast drying, weather-stable, non-yellowing, high resistance to chemicals and outstanding mechanical properties
Desmodur® ultra** N 3800	HDI	100	—	11.0	382	6000	2K PUR coatings for stone-chip protection systems, vehicle repair systems and plastics	Highly flexible, weather-stable, increased formulation latitude as blend partner with other hardeners, high resistance to chemicals and outstanding mechanical properties

\*\*Residual monomer content of less than 0.1%.

## Desmodur® N – Low Viscosity HDI Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® N 3400	HDI	100	—	21.8	193	175	Reactive thinner or hardener for high solids and waterborne 2K PUR coatings	Very low viscosity, lightfast, suitable for high gloss systems as well as for matte moisture-cure systems
Desmodur® N 3600	HDI	100	—	23.0	183	1200	2K PUR systems for automotive OEM, automotive refinish, plastics and industrial coatings	Low viscosity, weather-stable, non-yellowing; for high solids and waterborne systems
Desmodur® ultra** N 3900 A	HDI	100	—	23.5	179	730	2K PUR systems for automotive refinish, plastics and industrial coatings	Low viscosity, weather-stable, non-yellowing; for high solids and waterborne systems; good functionality/viscosity balance
Desmodur® ultra** N 31100	HDI	100	—	19.5	215	500	2K PUR light-stable elastomers and high solids systems	Low viscosity, weather-stable, retains gloss and color

## Bayhydur®/Crosslinker CX/Desmodur® – Water-Dispersible Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Bayhydur® 2547 A	HDI	100	—	22.5	187	650	2K waterborne PUR systems for flooring, suitable for maintenance coatings and especially good for concrete flooring	Good gloss and chemical resistance, non-yellowing
Bayhydur® 302	HDI	100	—	17.3	243	2300	2K waterborne PUR systems for automotive refinish, wood furniture, plastics, industrial coatings and adhesives	Versatile and economical, good chemical resistance, outstanding stability and gloss retention
Bayhydur® 303	HDI	100	—	19.3	218	2400	2K waterborne PUR systems for plastics, industrial coatings and adhesives	Good chemical resistance, weather-stable, non-yellowing
Bayhydur® ultra** 304	HDI	100	—	18.2	230	4000	Hardener in 2K waterborne PUR systems for automotive refinish, plastics and industrial coatings	High functionality, good chemical resistance, good dispersibility, good weather stability, non-yellowing. (Certification to FDA 21 CFR 175.105 with a functional barrier available upon request)
Bayhydur® ultra** 305	HDI	100	—	16.2	260	6500	Hardener in 2K waterborne PUR systems for wood and industrial coatings	Good dispersibility, weather-stable, non-yellowing, increased flexibility
Bayhydur® ultra** 308	HDI	100	—	20.0	210	900	Suitable as the hardener component in the formulation of water-reducible 2K coatings, topcoats and sealers	Can also be added to conventional OH-free dispersions to improve their property profiles
Bayhydur® ultra** 2487/1	HDI	100	—	20.6	204	5400	Hardener in 2K waterborne PUR systems for plastics and industrial coatings	Outstanding weather stability and gloss retention, along with high chemical resistance and non-yellowing
Bayhydur® ultra** 2655	HDI	100	—	20.8	202	3500	Hardener in 2K waterborne PUR systems	Easy mixing, outstanding chemical resistance, fast drying and high ultimate hardness
Bayhydur® ultra** 2700	HDI	65	DPGDME	10.6	396	75	Suitable as a hardener for aqueous 2K PUR systems	Used for applications where the ease of mixing the hardener by manual stirring is a key requirement
Bayhydur® ultra** 2858	HDI/IPDI	70	PGDA	13.3	316	500	Used as a hardener in 2K waterborne systems	Easily disperses even at low shear rates. Also suitable for manual mixing if required
Bayhydur® ultra** 401 70 MPA/X	IPDI	70	MPA/X (1:1)	9.4	440	600	2K waterborne PUR systems for automotive refinish and industrial coatings	Weather-stable, non-yellowing, improved hardness, good adhesion and drying properties
Crosslinker CX-100	Aziridine	100	—	—	156	250	Hardener for 2K waterborne systems	Improves hardness and flexibility
Desmodur® 2802	Carbodiimide	100	—	—	—	105	Crosslinking agent for aqueous adhesive and coatings systems	Can be used in adhesive formulations for roll-to-roll applications, such as flexible packaging lamination
Desmodur® ultra** DA-L	HDI	100	—	20.0	210	3000	Crosslinker for waterborne adhesive systems	High functionality produces improved water resistance, reacts under ambient conditions and improves the resistance of adhesive bonds to moisture, heat, plasticizers and many solvents
Desmodur® ultra** DN	HDI	100	—	21.8	193	1250	Crosslinker for waterborne adhesives systems	Lower viscosity for improved dispersibility, crosslinking increases resistance of bonds to heat, water, plasticizers and many solvents

\*\*Residual monomer content of less than 0.1%.

## Desmodur® BL/PL – Thermoreactive Crosslinkers for 1K Polyurethane Baking Systems

Product	Chemical Base	Solids %	Solvent	Blocked NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® BL 1100/1	TDI	100	—	3.0	1400	43000	Hardener for lightfast, stoving PUR systems for dipping and curtain coatings, adhesive cements and automotive repair	Improves flexibility, tear and stone-chip resistance of stoving coating systems
Desmodur® BL 1265/1 MPA/X	TDI	65	MPA/X (1:1)	4.8	875	20000	As a crosslinker it can be used for the inside of tubes, can coatings and stone-chip primer surfaces	Formulates 1K stoving coatings, increases film hardness and low-temperature crack resistance
Desmodur® BL 2078/2	IPDI	60	SN 100	7.0	600	1750	Can/coil coatings, industrial finishes	Good resistance to thermal yellowing, improves adhesion and elasticity, good weather stability, FCN approved for use in food can coatings
Desmodur® BL 3175A	HDI	75	SN 100	11.1	379	3000	Hardener for industrial finishing, coil and can coatings; automotive industry for chip-resistant primer surfaces and topcoats	High flexibility, good adhesion, good weather stability and chemical resistance
Desmodur® BL 3272 MPA	HDI	72	MPA	10.2	410	2700	Hardener in 1K PUR baking systems for coil coatings and industrial finishes	Outstanding flexibility, good hardness, weather stability and resistance to scratching, abrasion and thermal yellowing; especially for high build systems
Desmodur® BL 3370 MPA	HDI	70	MPA	8.9	470	3800	Hardener for industrial finishing of appliances, coil and can coatings; automotive industry for chip-resistant primer surfaces and topcoats	Low baking temperature, high reactivity, weather-stable and improves reactivity in adhesion
Desmodur® BL 3475 BA/SN	HDI/IPDI	75	BA/SN 100 (1:1)	8.2	510	1000	Hardener in 1K PUR baking systems for industrial finishes and can/coil coatings	Low baking temperature, high reactivity, weather-stable and improves the reactivity, flexibility and adhesion
Desmodur® BL 3575/1	HDI	75	SN 100/MPA	10.5	400	3600	Good for topcoats for auto OEM and high industrial finishes	Formulates 1K lightfast stoving coatings that enables good weather stability and chemical resistance
Desmodur® BL 4265 SN	IPDI	65	SN 100	8.1	520	11000	Hardener in 1K PUR baking systems for automotive OEM, can/coil coatings and industrial finishes	Good chemical resistance, high hardness, light-stable
Desmodur® PL 340 BA/SN	IPDI	60	BA/SN 100 (18:22)	7.3	575	600	Hardener in 1K PUR baking systems for automotive OEM, can/coil coatings and industrial finishes	Low baking temperature, flexible, good chemical resistance and highly resistant to thermal yellowing and weathering
Desmodur® PL 350 MPA/SN	HDI	75	MPA/SN 100 (8:17)	10.5	400	4300	Hardener in 1K PUR baking systems for automotive OEM, can/coil coatings and industrial finishes	Low baking temperature, highly resistant to thermal yellowing and weathering

## Bayhydur® BL/Dispercoll® BL – Thermally Activated Polyurethane Hardeners

Product	Chemical Base	Solids %	Solvent	Blocked NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Bayhydur® BL 2867/1	HDI	38	Water	4.4	960	100	Hardener for 1K PUR baking systems for automotive OEM impact resistant primers, primer surfacer, topcoats and high grade industrial baked coatings	Specially used in water-reducible, lightfast 1K PUR baking systems and as an additive to improve flexibility, impact strength and adhesion
Dispercoll® BL XP 2514	TDI	40	Water	3.8	1094	N/A	Used as the crosslinking component in combination with Dispercoll U for the formulation of one-component latent-reactive polyurethane dispersion adhesives	Higher reactivity than aliphatic crosslinkers with improved storage time versus 2K waterborne adhesives. Dried adhesive films are latent and can be stored for months
Bayhydur® BL XP 2706	HDI/IPDI	40	Water	3.3	1275	1300	1K waterborne systems for industrial, glass and metal coatings	Improved reactivity and thermal stability, high hardness, good adhesion, chemical resistance and lightfastness

## Desmodur® Z – IPDI Trimer Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® Z 2589	IPDI	100	—	17	247	Powder form	Can be used in combination with Dispercoll® U as a curing agent for 1K latent-reactive polyurethane dispersion adhesives, as well as 2K solventborne adhesives	Soluble and can be diluted in polar aprotic solvents. Compliant with FDA regulation 175.105
Desmodur® Z 4470 BA	IPDI	70	BA	11.9	360	600	2K PUR systems for automotive OEM and refinish, additive in alkyd refinish systems, and industrial finishing	Outstanding weather stability and mechanical properties, good gloss retention, light-stable, good chemical resistance as well as good drying properties
Desmodur® Z 4470 MPA/X	IPDI	70	MPA/X (1:1)	11.9	360	1500	2K PUR systems for automotive OEM and refinish, additive in alkyd refinish systems, and industrial finishing	Outstanding weather stability and mechanical properties, good gloss retention, light-stable, good chemical resistance as well as good drying properties
Desmodur® Z 4470 SN	IPDI	70	SN 100	11.9	360	2000	2K PUR systems for automotive OEM and refinish, additive in alkyd refinish systems, and industrial finishing	Outstanding weather stability and mechanical properties, good gloss retention, light-stable, good chemical resistance as well as good drying properties
Desmodur® Z 4470 SN/BA	IPDI	70	SN 100/BA (2:1)	11.9	353	1200	2K PUR systems for automotive OEM and refinish, additive in alkyd refinish systems, and industrial finishing	Outstanding weather stability and mechanical properties, good gloss retention, light-stable, good chemical resistance as well as good drying properties
Desmodur® Z 4580 BA	IPDI	80	BA	12	350	2800	Suitable for transportation and industrial coatings, the formulation of high-solids and 2K waterborne PUR systems for automotive refinishing	Hardener component for weather-stable coating systems

## Desmodur® NZ – HDI/IPDI Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® NZ 300	HDI/IPDI	100	—	21.0	200	3000	2K PUR systems for floor coatings, automotive refinish, industrial finishes and plastics	Solvent-free hardener, good weathering and chemical resistance. Very good gloss retention and mechanical properties
Desmodur® ultra** NZ 200	HDI/IPDI	100	—	21.0	200	22500	Hardener in 2K PUR lightfast coating systems, automotive OEM and refinish, transportation, industrial finishing and plastics	High chemical resistance and weathering, good gloss retention and mechanical properties

\*\*Residual monomer content of less than 0.1%.

## Desmodur® – Aliphatic Prepolymers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® E 3265 MPA/SN	HDI	65	MPA/SN 100 (6:29)	10.4	404	1200	Moisture-cure 1K PUR systems that are suitable for use in the formulation of colorfast outdoor coatings	Good weathering and non-yellowing with very good resistance to solvents, abrasion and chemicals
Desmodur® E 30700	HDI	100	—	11.0	380	1350	For use with polyaspartics, in the formulation of 2K light-stable coatings	Low viscosity, highly elastic, for solvent-free PUR systems, water-proofing membranes and floor coatings
Desmodur® E 40480 MPA	IPDI	80	MPA	2.8	1500	7000	Binder for the formulation of flexible surface coatings and sealers	Very good storage stability, flexible to enable blister-free systems
Desmodur® NZ 486 BA	HDI/IPDI	86	BA	10.2	412	2100	For use with polyaspartics, and in the formulation of moisture-cure and 1K PUR coatings	Good weathering and gloss retention, non-yellowing, controlled reactivity allowing high film builds, adds stability and chalk resistance in pigmented formulations
Desmodur® ultra** E 30500	HDI	100	—	12.5	336	4250	2K polyurethane, polyurea, and hybrid sealants	Low monomer content, largely linear prepolymer
Desmodur® ultra** E 30600	HDI	100	—	6.0	700	2500	Hardener for solvent-free polyurethane coatings	Flexibilizing properties, used primarily for hardening pipe coating systems
Desmodur® VP LS 2371	IPDI	100	—	3.7	1100	9800	Binder for elastic coatings and surface sealing compounds	Provides resistance to hydrolysis

## Desmodur® LD – Low Functionality Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® LD	HDI	100	—	12.1	347	75	Water scavenger for pigmented moisture-curing 1K PUR systems	Non-yellowing with good lightfastness and weather stability

## Mondur® – Aromatic Crosslinkers

Product	Chemical Description	Commercial Form	NCO Wt. %	Visc. mPa*s	Equiv. Wt.	Typical Functionality	Application Areas	Features/Benefits
Mondur® MB	4,4' isomer of MDI	Fused or molten	33.6	Solid	125	2.0	Elastomers, TPUs, adhesives, coatings and fibers	High performance PUR; special storage temperature required
Mondur® MLQ	Mixture of 4,4' and 2,4' isomers of MDI	Light yellow liquid	33.6	10	125	2.0	Synthetic surfaces, binders, elastomers, coatings, adhesives and sealants	Low vapor pressure, good low-temperature properties
Mondur® MQ	4,4' isomer of MDI	Molten	33.6	Solid	125	2.0	Synthetic surfaces, binders, elastomers, coatings, adhesives and sealants	High performance PUR; special storage temperature required
Mondur® TDS	2,4 isomer of TDI	Clear to light yellow liquid	48	3	87	2.0	Elastomers, coatings, adhesives and foams	High-reactivity rate with low monomer content
Mondur® TD-65	65/35 mixture of 2,4 and 2,6 isomers of TDI	Clear to light yellow liquid	48	3	87	2.0	Formulation of flexible polyester and polyether urethane foams and high performance sealants	Unique isomer ratio
Mondur® TD-80	80/20 mixture of 2,4 and 2,6 Isomer of TDI	Clear to light yellow liquid	48	5	87	2.0	Elastomers, coatings, adhesives, sealants and foams	Excellent flowability, low temperature stability, largest commercial TDI version

## Mondur® – Modified MDI Crosslinkers

Product	Chemical Description	Commercial Form	Solids %	NCO Wt. %	Visc mPa*s	Equiv. Wt.	Typical Functionality	Application Areas	Features/Benefits
Mondur® PF	Modified MDI	Light yellow liquid	100	22.9	650	183	2.0	High-property sealants	Liquid 4,4' -MDI prepolymer modified MDI
Mondur® PC	Modified MDI	Clear to light yellow liquid	100	26.0	145	162	2.1	Elastomers and high-property sealants	Low viscosity; high performance
Mondur® CD	Uretonimine modified MDI	Clear to yellow liquid	100	29.5	50	143	2.2	High performance elastomers, sealants and adhesives	Low viscosity; high NCO content

\*\*Residual monomer content of less than 0.1%

The product data listed is provided as general information only. They are approximate values and are not considered part of the product specifications.  
Note: Viscosity in mPa\*s is 23°C or 25°C and Equivalent Weight is as supplied unless otherwise noted

## Desmodur® L/IL/HL – Crosslinkers

Product	Chemical Base	Solids %	Solvent	NCO Wt.%	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
<b>Desmodur® L</b>								
Desmodur® L 67 BA	TDI	67	BA	11.9	350	600	Furniture, parquet flooring, metal, paper, plastics and mineral substrates	Used to formulate air-drying 2K PUR coatings and adhesives
Desmodur® L 67 MPA/X	TDI	67	MPA/X (1:1)	11.9	350	1600	Furniture, parquet flooring, metal, paper, plastics and mineral substrates	Used to formulate air-drying 2K PUR coatings
Desmodur® L 75	TDI	75	EA	13.3	315	1600	Coatings and adhesives for furniture, parquet flooring, metal, paper, plastics and metal substrates	Used to formulate air-drying 2K PUR coatings and adhesives, increases the resistance of the bonds to heat, oil, plasticizers and many solvents; ensures good adhesion to many materials, especially plastics, and the pale inherent color permits its use in bonding transparent plastic films for packaging
Desmodur® ultra** L 75	TDI	75	EA	13.3	315	1600	Coatings and adhesives for furniture, parquet flooring, metal, paper, plastics and metal substrates	Used to formulate air-drying 2K PUR coatings and adhesives, increases the resistance of the bonds to heat, oil, plasticizers and many solvents; ensures good adhesion to many materials, especially plastics, and the pale inherent color permits its use in bonding transparent plastic films for packaging
<b>Desmodur® IL</b>								
Desmodur® ultra** IL BA	TDI	51	BA	8.0	525	2000	2K PUR coatings for furniture, wood, metal and paper substrates	Extremely fast curing, fast drying and early sandability
Desmodur® ultra**IL 1351 BA	TDI	51	BA	8.0	525	1300	Used to formulate industrial coatings for the wood and furniture industry	Rapid drying and early sandability
Desmodur® IL 1451 BA	TDI	51	BA	7.4	570	250	Used to formulate industrial coatings for the wood and furniture industry	Rapid drying and early sandability
Desmodur® ultra** IL EA	TDI	51	EA	8.0	525	700	Coatings for on-line application such as packaging and industrial furniture finishing, used to bond many materials such as wood, metal and plastics	Extremely fast curing, fast initial drying and early sandability, suitable for room temperature crosslinking, increases resistance of bonds to heat, oil, plasticizers and many solvents, ensures good adhesion to many materials, especially plastics
<b>Desmodur® HL</b>								
Desmodur® HL BA	HDI/TDI	60	BA	10.5	400	2200	Can be used for fast drying clear and pigmented wood coatings which can be sprayed or used in curtain coatings. Also can be used for fast drying coatings for metal substrates	Rapid initial drying, fast curing, early sandability, good lightfastness, high-bodied, clear or pigmented finishes, and improved light stability over Desmodur L

## Desmodur® R – Crosslinkers

Product	Chemical Description	Solids %	Solvent	NCO Wt.%	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
Desmodur® RC	TDI trimer	35	EA	7.0	600	3	Especially useful for crosslinking pale-colored adhesives used to bond rubber-based materials	Crosslinker for solventborne polyurethane and polychloroprene adhesives, light-colored product, slower cure than Desmodur® RFE
Desmodur® RFE	Tris-(p-isocyanatophenyl) thiophosphate	27	EA	7.2	584	3	Crosslinker for solventborne polyurethane and polychloroprene adhesives	Rapid curing, high heat resistance
Desmodur® ultra** RN	HDI/TDI	40	EA	7.2	584	11	Works well on both natural and synthetic rubbers	Suitable for crosslinking solventborne PUR adhesives and works well on both natural and synthetic rubbers

\*\*Residual monomer content of less than 0.1%.

## Desmodur®/Mondur® – Polymeric MDI Crosslinkers

Product	Chemical Description	Commercial Form	Solids %	NCO Wt.%	Visc. mPa*s	Equiv. Wt.	Typical Functionality	Application Areas	Features/Benefits
<b>Mondur® 448</b>	Modified Polymeric MDI	Brown/amber liquid	100	27.7	140	152	2.2	Adhesives, coatings, elastomers, synthetic surfaces and binders	Low vapor pressure, low functionality
<b>Mondur® 489</b>	Polymeric MDI	Dark brown liquid	100	30.7	700	137	3.0	Laminates and insulated metal parts	High functionality
<b>Mondur® 582</b>	2,4'-enriched Polymeric MDI	Brown/amber liquid	100	32.0	55	131	2.5	Coatings, adhesives and elastomers	Low vapor pressure, low viscosity, extended open time, low functionality
<b>Mondur® 1488</b>	2,4'-enriched Polymeric MDI	Brown/grey liquid	100	32.4	26	130	2.3	Coatings, adhesives, elastomers and encapsulants	Low functionality, low vapor pressure, extended open time
<b>Mondur® MR Light</b>	Polymeric MDI	Brown/light amber liquid	100	31.5	200	133	2.8	Coatings, adhesives and encapsulants	Multi-purpose encapsulants, low functionality, low vapor pressure
<b>Mondur® MR-5</b>	Polymeric MDI	Brown/amber liquid	100	32.5	70	129	2.4	Coatings, adhesives and specialty elastomers	Low viscosity, high monomer, low functionality, low vapor pressure
<b>Mondur® MRS</b>	2,4'-MDI rich Polymeric MDI	Brown/amber liquid	100	31.5	200	131	2.8	Coatings, adhesives and sealants	Low vapor pressure, low functionality
<b>Mondur® MRS-2</b>	2,4'-MDI rich Polymeric MDI	Amber liquid	100	33.0	25	127	2.3	Coatings, elastomers, encapsulants and adhesives	Low functionality, low vapor pressure, extended open time
<b>Mondur® MRS-4</b>	2,4'-MDI rich Polymeric MDI	Brown/grey liquid	100	32.5	40	129	2.4	Coatings, elastomers, structural adhesives, encapsulants and synthetic surfaces	Low viscosity, excellent low temperature stability, extended open time, low functionality, low vapor pressure

## Desmodur®/Mondur® – TDI/MDI Prepolymers

Product	Solids %	Solvent	NCO Wt. %	Equiv. Wt.	Visc. mPa*s	Application Areas	Features/Benefits
<b>TDI Prepolymers</b>							
<b>Desmodur® E 1160 MPA/X</b>	60	MPA/X (1:1)	5.4	780	550	Used for wood coatings, wall and ceiling paneling, boats and furniture; clear impregnating systems	Provides long-term protection against moisture, oil, fuel, chemical and mechanical damage
<b>Desmodur® E 1361 MPA/X</b>	61	MPA/X (1:1)	6.8	620	375	Suitable for use in formulating wood coatings, anti-corrosion coatings, primers and intermediate coatings	Protects surfaces against moisture, oil, fuels and aggressive chemicals
<b>Desmodur® E 14</b>	100	—	3.3	1270	6800	Construction sealants	Can be combined with hardeners to formulate highly flexible sealers. Used in 1K PUR formulations to improve flexibility
<b>Desmodur® ultra**E 15</b>	100	—	4.4	950	7000	Used for construction coatings, sealants, flat roof and concrete crack bridging	Highly flexible, good for high film build coatings

\*\*Residual monomer content of less than 0.1%.

## Desmodur®/Mondur® – TDI/MDI Prepolymers (continued)

Product	NCO Wt. %	Equiv. Wt.	Visc. mPa•s	Application Areas	Features/Benefits
<b>MDI Prepolymers</b>					
Desmodur® E 20100	15.7	268	1100	Used as a binder for the formulation of injection resins for sealing water-conveying cracks in structures above and below ground	Good flexibility
Desmodur® MP-101	10.0	422	2500	Rubber crumb binders and flexible caulks and sealants	Forms clear moisture-cure films and is used to formulate 1K moisture-cure binders, 2K sealants and cast elastomers
Mondur® 1453	16.5	254	600	Used in the formulation of binders, cast elastomers, 2K adhesives, caulks, sealants and spray elastomer systems	Typically used in polyurea spray systems for concrete
Desmodur® E 23A	16.5	273	1600	1K moisture-cure adhesive for bonding wood and other substrates; can also be used as a 1K primer and concrete sealant and 2K thick section coating	Good abrasion resistance, toughness, and flexibility
Desmodur® E 28	16.5	255	6400	1K moisture-cure PUR adhesive for wood and also used as primers and sealers for porous substrates	Can be formulated to contain zinc as zinc-rich primers that give galvanic protection
Desmodur® E 29	24.0	175	220	Used as a binder in the formulation of solvent-free and high-solids coatings for structural and corrosion protection	Compatible with many flexibilizers and liquid extender resins
Desmodur® E 743	8.0	525	2500	Suitable as a moisture-cure coating for concrete	Produces 1K highly resilient, Rubbery-like films with an extremely high abrasion resistance
Desmodur® E 744	23.5	179	600	2K coatings used as high solids or solvent-free systems in applications such as membranes, deck coatings, pipe coatings, roof coatings, binders, encapsulants, product finishing, or coatings for solvent-sensitive substrates such as polystyrene foams and other plastic materials	Good toughness and elasticity

## Desmocap® – Epoxy Flexibilizers

Product	Chemical Base	Blocked NCO Wt. %	Equiv. Wt.	Visc. mPa•s	Application Areas	Features/Benefits
Desmocap® 11A	TDI	2.4	1751	90000	When combined with epoxy resins takes on the function of a reactive flexibilizer	Used as an epoxy flexibilizer and to formulate liquid, solvent-free PUR systems
Desmocap® 12A	TDI	2.0	2155	33000	For use in the flexibilization of epoxy resins and the formulation of flexible coatings and sealing compounds	Used as an epoxy flexibilizer and to formulate liquid, solvent-free PUR systems
Desmocap® 14 CNB	TDI	2.7	1556	25000	When combined with epoxy resins takes on the function of a reactive flexibilizer	Nonylphenol free flexibilizing agent

## Desmoseal® – Silane Terminated Urethane Prepolymers

Product	Visc. mPa•s	Application Areas	Features/Benefits
Desmoseal® S 2876	25000	For use in elastic 1K STP-adhesives and sealants	Adds flexibility to help optimize adhesive and sealant formulations
Desmoseal® S XP 2636	40000	Suitable for solvent-free, moisture-cure 1K systems	For moisture-cure coatings, sealants and adhesives
Desmoseal® S XP 2749	4500	Suitable as a binder for producing flexible adhesives, sealants and coatings	Solvent-free, moisture-cure 1K systems that cure without bubbles or blisters
Desmoseal® S XP 2774	50000	Binder for producing highly flexible adhesives, sealants and coatings	1K moisture-cure systems that cure without bubbles or blisters

## Mondur® MA – MDI Allophanates

Product	NCO Wt. %	Visc. mPa•s	Equiv. Wt.	Application Areas	Features/Benefits
Mondur® MA 2300	23.0	450	183	Solvent-free 2K for use in truck bedliners, adhesives, sealants and carpet backing	Low freeze point; high solids
Mondur® MA 2603	16.0	1050	263	Used in spray elastomers for coatings, adhesives and sealants	Low freeze point

## Desmophen® CQ NH – Amine Functional Coreactants

Product	Visc. mPa*s	Equiv. Wt.	Amine Value	Solids %	Solvent	Application Areas	Features/Benefits
Desmophen® CQ NH 1220	100 max	234	240-248	100	—	May be used by itself or as a blend with hydroxy-functional acrylic resins and crosslinked to yield high solids polyurethane/polyurea clearcoats	Tough but flexible, lightfast and highly reactive 2K PUR spray coatings
Desmophen® CQ NH 1420	1325	276	199-203	100	—	For use in the formulation of high solids 2K polyurethane/polyurea coatings	Good mechanical performance and excellent corrosion protection,
Desmophen® CQ NH 1423 LF	1525	274	202-208	100	—	For the formulation of high solids 2K polyurethane topcoats and large-surface applications	Improved gloss retention and improved color stability
Desmophen® CQ NH 1520	1400	290	189-193	100	—	For use in the formulation of high solids 2K polyurethane/polyurea coatings	Tough but flexible, lightfast 2K PUR spray coatings
Desmophen® CQ NH 1521	160	326	168-176	90	BA	Can be used in the formulation of high solids 2K polyurethane/polyurea coatings	Suitable for the manufacture of high-solids 2K PUR coating formulations
Desmophen® CQ NH 1523 LF	1900	280	190-210	100	—	For the formulation of high solids 2K polyurethane topcoats and large-surface applications	Tough but flexible, lightfast 2K PUR spray coatings
Desmophen® CQ NH 1720	100	295	170-210	100	—	High solids, 2K PUR topcoats and solvent-free coatings	Low viscosity, not suitable for exterior applications requiring good gloss retention
Desmophen® CQ NH 1723 LF	>80	290	185-205	100	—	Suitable for the formulation of high-solids, polyurethane topcoats and solvent-free coating materials	Low diethyl fumarate content used in the formulation of high solids 2K PUR topcoats and coating materials

## Impranil® HS – High Solids Thermally Activated Polyurethane Hardeners for Textile Application Areas

Product	Chemical Description	Solids %	Solvent	Visc. mPa*s	100% Modulus, psi	Tensile strength, psi	Elongation %	Application Areas	Features/Benefits
Impranil® HS-62	Aromatic/PEth	98	MPA	70000	290	1160	660	Suitable for use by the transfer coating process as topcoats, intermediate coats (compact or foamed), adhesion coats and by the direct coating process as single- or double-sided coatings applied in one or more coats	Low solvent, high film thickness possible in one coat, outstanding hydrolysis resistance
Impranil® HS-130	Aromatic/PEth	100	—	130000	1450	3625	400	Suitable for use by the transfer coating process as topcoats, intermediate coats (compact or foamed), adhesion coats, foamed films and by the direct coating process as single- or double-sided coatings applied in one or more coats	Outstanding resistance to hydrolysis, and has a long pot life. A high film thickness is possible in one coat

## Imprafix® – Crosslinking Agents and Catalysts

Product	Chemical Base	Solids %	Solvent	Visc. mPa*s	NCO %	Features/Benefits
Imprafix® 2794/1	HDI	38	Water	1500	4.4	Waterborne 1K systems for industrial coating applications, glass, textiles and metal. Improved reactivity and thermal stability, high flexibility, good adhesion, good chemical resistance, lightfast
Imprafix® AH	HDI/IPDI	40	Water	1300	3.5	Highly reactive after deblocking and shows good thermostability
Imprafix® HS-C	Alkyl Amine	100	—	120	N/A	Crosslinker for Impranil® HS products
Imprafix® TH LSG	TDI	75	EA	1600	13.3	Crosslinker for waterborne products

## Impranil® – 1K Polyurethane Solutions for Textile Application Areas

Product	Chemical Description	Solids %	Solvent	Visc. mPa*s	100% Modulus, psi	Tensile strength, psi	Elongation %	Softening Range° C	Features/Benefits
Impranil® 2610	Aliphatic/ Polycarbonate	30	MPA/GBL/ IPA/PGME	32,000	943	7251	300	195	Very high lightfastness, outstanding light stability and resistance to hydrolysis and good resistance to chemical dry cleaning
Impranil® 43031 Solution	Aliphatic/ Polyester	25	Toluene/ IPA/PGME	11000	4350	5075	175	195-205	Used as a topcoat for lining textile materials and finish for PVC coatings
Impranil® ELH-A/1 Solution	Aliphatic/ Polycarbonate	30	Toluene/ IPA/PGME	35000	1087	7250	400	190-200	Transfer and direct process as topcoat, light-stable

## NeoCryl® – Waterborne Acrylic Latex

Product	Solid %	Visc. mPa*s	pH	MFFT °C	Features/Benefits
NeoCryl® A-550 EU	40	15	5.2	100	Suitable for carpet cleaners and rug shampoos
NeoCryl® A-633	42	55	7.5	49	Aqueous acrylic copolymer designed for air and force dried architectural and industrial applications
NeoCryl® A-639 US	45	235	6.5	53	Good pigment tolerance and can be used as a grinding resin with good adhesion to a wide range of plastics
NeoCryl® A-655	45	200	7.9	34	Excellent adhesion to metal surfaces especially primers and topcoats for engine enamels, rough metal castings and plastics
NeoCryl® A-662	40	50	7.5	>90	Suitable for plastic coatings, consumer electronics and automotive interior applications
NeoCryl® A-1094	45	600	8.5	9	Hard but flexible film forming polymer for high gloss printing inks
NeoCryl® A-1120	55	600	8.2	<0	Excellent adhesion with good flexibility and can be used in surface printing and laminating inks
NeoCryl® A-1125	20	600	8.4		Can be used as a modifier for printing and acrylic dispersions
NeoCryl® A-1127	44	100	7.5	7	Self crosslinking acrylic for flexible printing and packaging applications
NeoCryl® A-1131	40	90	9.3	82	Printing for wallpaper inks on paper and PVC substrates
NeoCryl® A-1234	43	400	7.6	5	Self crosslinking acrylic with fast blocking resistance and good transparency and non-yellowing characteristics
NeoCryl® A-1237	44	175	8.8	8	Suitable for use in flexo and gravure surface printing inks and poly-coated board and heavy duty bag printing
NeoCryl® A-2082	44	400	8.5	5	Suitable for over print varnishes for packaging
NeoCryl® A-2091	46	300	8.3	80	Suitable for printing inks and over print varnishes
NeoCryl® A-2092	47	450	8.3	6	Suitable for printing inks and over print varnishes
NeoCryl® A-6016	45	<400	9.6	5	Very low VOC's while maintaining good chemical and mechanical resistance, fast blocking properties, non-yellowing and good transparency
NeoCryl® A-6057	40	50	5	>100	Designed to improve hardness and mar-resistance of clear and pigmented coatings
NeoCryl® A-6069	42	250	8	26	Exhibits excellent block and print resistance with low VOC demand and rapid hardness development
NeoCryl® A-6085	40	250	9.2	28	High gloss with good chemical and impact resistance
NeoCryl® A-6092	43	100	4.2	50	Suitable for use in sanding sealers, brushing varnishes, floor finishes and wood coatings
NeoCryl® A-6144	33	300	8.1	<0	Pre-coalesced acrylic, hard and very scratch resistant, good for wood coatings
NeoCryl® FL-715	25	<100	10	26	Provides low temperature heat seal coatings on OPP packaging films exhibiting excellent antiblock and broad printability with different types of printing inks
NeoCryl® FL-791	45	<250	8.9	<0	Excellent adhesion when applied onto plastic label and packaging films, exhibiting good antiblock, high clarity and broad printability with many types of printing inks
NeoCryl® FL-5095	45	125	9.5	>5	Excellent adhesion properties onto many plastic substrates including BOPP and PET packaging films. Good elevated temperature block resistance
NeoCryl® HP-2100	44	<450	8	<23	Provides excellent adhesion to a wide variety of surfaces that are typically very difficult to adhere to, including multiple metals, plastics, and glossy surfaces
NeoCryl® XK-12	45	70	8	29	Self crosslinking modified acrylic copolymer emulsion. Suitable for many types of wood coatings like furniture or parquet lacquers
NeoCryl® XK-14	40	150	8.6	33	Self crosslinking, emulsifier free copolymer emulsion suitable for use in clear and opaque coatings on wood and plastic
NeoCryl® XK-15	45	150	8	31	Self crosslinking acrylic copolymer emulsion suitable as primer in furniture coatings having a warm wood coloration and high transparency
NeoCryl® XK-30	42	100	4.1	30	Acrylic copolymer emulsion suitable as stain locking primer on hard woods to prevent leaching of tannins without the need for zinc oxide pigments
NeoCryl® XK-68	47	150	4.4	35	Hydroxyl acrylic styrene dispersion suitable for 2K formulations. Has good stability, chemical resistance and hardness
NeoCryl® XK-82	40	<100	8.2	44	Suitable for metal, wood, plastic coatings providing humidity and corrosion resistance
NeoCryl® XK-87	51	500	7.3	27	Acrylic styrene copolymer suitable for metal coatings providing corrosion resistance, water and humidity resistance
NeoCryl® XK-95	41	25	8.6	4	Modified acrylic copolymer emulsion designed for a printable coating on board and plastic substrates
NeoCryl® XK-96	50	50	9	0	Modified all-acrylic emulsion suitable for clear and opaque exterior formulations including wood stains, joinery and high gloss topcoats
NeoCryl® XK-98	44	100	7.6	7	Self crosslinking acrylic copolymer emulsion suitable for clear and opaque formulations in high demanding outdoor durability applications providing elongation, blocking resistance and early water resistance
NeoCryl® XK-99	44	<150	8.3	4	Suitable for clear and opaque formulations or as blend partner in high demanding outdoor durability applications providing elongation at low temperatures, transparency and clarity

The product data listed is provided as general information only. They are approximate values and are not considered part of the product specifications.  
 Note: Viscosity in mPa\*s is 23°C or 25°C and Equivalent Weight is as supplied unless otherwise noted

## NeoCryl® – Waterborne Acrylic Latex (continued)

Product	Solid %	Visc. mPa•s	pH	MFFT °C	Features/Benefits
NeoCryl® XK-170	45	350	9.4	33	Suitable for primers and topcoats in wood, metal, and plastic coatings having very good wet adhesion, hardness and outdoor durability
NeoCryl® XK-190	45	250	8.8	0	Modified acrylic copolymer emulsion suitable for architectural paints and joinery topcoats providing outdoor durability and wet adhesion to many substrates
NeoCryl® XK-205	42	80	7.5	55	Acrylic styrene copolymer emulsion suitable for furniture, plastic, concrete and parquet coatings
NeoCryl® XK-212	45	120	8.1	26	Self crosslinking copolymer emulsion suitable for use in clear formulations on wood and metal providing alcohol resistance, block and print resistance, excellent clarity and good pore wetting
NeoCryl® XK-221	45	150	9	55	Acrylic latex polymer designed for high gloss enamels suitable for use in interior trim and kitchen and bath enamels that require a good balance of high gloss, adhesion and resistance to food stains and household cleaners
NeoCryl® XK-232	44	175	7.6	7	Self crosslinking acrylic copolymer emulsion suitable for transparent and pigmented primers and topcoats providing outdoor durability and good hardness
NeoCryl® XK-350	42	110	4.7	36	Acrylic copolymer emulsion suitable as knot blocking primer on pine wood and stain locking on hard woods to prevent leaching of tannins without the need for zinc oxide pigments

## Bayhydrol®/NeoCryl® XK – Hydroxyl Functional Dispersions for 2K Waterborne Urethanes

Product	Type	Neutralizing Agent	Solids %	Equiv. Wt.	Tg °C	Co-solvent %	Application Areas	Features/Benefits
<b>Primary Polyols (High Molecular Weight)</b>								
Bayhydrol® A 242	PAC	NH <sub>3</sub>	42	1011	29	0	Given the special composition of this product, both hydrophilic and hydrophobic grade crosslinkers are suitable co-reactants	Cures to yield a PUR film with good general properties
Bayhydrol® A 2427	PAC	NH <sub>3</sub>	42	2023	88	0	2K PUR primers and topcoats, as well as 1K coatings	Good chemical resistance, especially resistant to discoloring liquids
Bayhydrol® A 2546	PAC	NH <sub>3</sub>	41	863	64	0	2K PUR coatings and sealers for mineral substrates and reactive resins	Outstanding mechanical and chemical resistance, especially good when hot tire resistance is required
Bayhydrol® A 2846	PAC	NH <sub>3</sub>	40	2833	65	0	Self crosslinking hydroxy functional acrylic dispersion developed for the formulation of both one and two component clear and pigmented primers and topcoats	Good chemical resistance, high film hardness, early sandability and fast blocking resistance development
NeoCryl® XK-101	PAC	DMEA	40	1700	21	0	Suitable for use in wood, plastic and metal coatings	Provides good compatibility with all kinds of crosslinkers
NeoCryl® XK-110	PAC	DMEA	46	1478	48	0	Can be used in 2K parquet lacquers, commercial vehicles, railway, ACE and general Industry	Produces high gloss and high clarity
<b>Secondary Polyols (Medium Molecular Weight)</b>								
Bayhydrol® A 145	PAC	DMEA	45	1144	36	8	Automotive and industrial; suited for high-gloss, clear and pigmented topcoats, primers and automatic windows	Films are hard and flexible with good single-coat adhesion and good resistance to solvents and water
Bayhydrol® A 2058	PAC	DMEA	42	843	-2	2	High-gloss flexible topcoats as well as primers and plastics	Flexible, good hydrolysis resistance, good pigment wetting properties and high shear stability
Bayhydrol® A 2470	PAC	DMEA/TEA	45	968	59	8	General industrial metal and plastics	Yields high-gloss topcoats which are hard and flexible with outstanding resistance to solvents and water, and have excellent weatherability, good pigment wetting properties and high shear stability
Bayhydrol® A 2542	PAC	TEA	50	894	17	1	Coatings for use on substrates such as wood, metal and plastic	Hard, very high gloss, good chemical resistance, outstanding water resistance
Bayhydrol® A 2601	PAC	DMEA/TEA	45	968	50	8	General industrial and transportation	Film is hard and tough yet flexible; exhibits high gloss, good filling power, good weather and light stability, rapid drying, good resistance to solvents and gasoline
Bayhydrol® A 2646	PAC	TEA	50	894	15	1	Hard, high-gloss sealers for mineral substrates and reactive resins (EP, PUR), coatings for use on substrates such as wood, metal and plastic; especially suited for concrete flooring	Outstanding mechanical and chemical resistance
Bayhydrol® A 2651	PAC	DMEA	41	1382	54	3.4	Clear 2K PUR coatings as well as pigmented coatings, especially suited for 2K wood coating systems	High gloss and matte, very good film transparency and high wood warmth
Bayhydrol® A 2695	PAC	DMEA	41	829	53	7.6	Suited for air and forced drying systems	Lightfastness, glossy, hard and tough yet flexible, good weather stability and superior chemical resistance
Bayhydrol® A 2770	PAC	DMEA	45	968	47	3.6	Yields high-gloss topcoats which can be dried at room temperature or force dried at higher temperatures	Hard and flexible with outstanding resistance to solvents and water, excellent weatherability, good pigment wetting properties and high shear stability
Bayhydrol® U 2698	PUR	DMEA	52	2179	-40	0	Suitable as a binder for the formulation of water-reducible soft-touch coatings	Very good hydrolysis resistance in soft-feeling coatings and good chemical resistance
Bayhydrol® U 2750	PUR	DMEA	42	1124	16	0	Formulation of high performance, hard elastic 2K PUR hydrocoatings	Characterized by high weathering resistance, gloss-retention, resistance to cracking, good appearance and high reflow-behavior after dry- or wet-scratching
Bayhydrol® U 2755/1	PUR	DMEA	35	1619	35	0	Well suited for the formulation of glossy and matte clear 2K PUR coatings as well as pigmented coatings	Provides coatings with very good film transparency, high wood warmth, fast drying, high hardness and long pot life
Bayhydrol® U 2757	PUR	DMEA	52	1720	-18	0	Used as a binder for water-reducible 2K PUR coatings, especially soft-touch and comfort coatings	Cosolvent-free, high elasticity, good chemical and scratch resistance, formulation of highly haptic soft-fee coatings possible
Bayhydrol® U 2766	PUR	DMEA	37	1148	51	0	High performance, hard-elastic 2K PUR hydrocoatings can be formulated	Characterized by good appearance both high gloss and low haze value
Bayhydrol® U 2787	PUR	DMEA	41	2439	-37	0	Used to formulate soft-touch and suede effect coatings	High shear stability, very good hydrolysis resistance in a soft-feel coating and good chemical resistance
NeoCryl® XK-555	PAC	—	40	850	26	0	Suitable for 2K commercial vehicles, railway, ACE, general industrial, concrete and furniture coatings	Provides very high gloss and clarity combined with high chemical resistance and cosolvent free

## Decovery®/NeoCryl® – Waterborne Alkali Soluble Resins

Product	Solid %	Visc. mPa*s	pH	MFFT °C	Features/Benefits
Decovery® SP-6400	40	15	5.5	0	Due to the product's clarity and alkali solubility it can be used successfully in adhesives for PET bottle labeling applications, where label removal is required. 32% 14C content
NeoCryl® BT-20	40	15	5.5	10	Suitable for formulations where good pigment wetting and printing properties are required. Providing toughness and flexibility, adhesion to various substrates, reversibility. Suitable for flexo and gravure applications
NeoCryl® BT-24 US	45	30	4.9	8	Provides fast cohesive strength and water resistance, tough, flexible and glossy films, good substrate wetting and adhesion
NeoCryl® BT-26	15	40	4.4	12	Excellent wetting and compatibility with pigments. Shows excellent compatibility with other resins as well
NeoCryl® BT-36	20	≤25	10.5	45	Provides block free heat sealable coatings for OPP packaging films exhibiting excellent printability and variety of printing options
NeoCryl® BT-62	40	275	8.5	10	Suitable for low Cobb inks and barrier coating formulations. Provides water and grease resistance for paper coatings and adhesion to various substrates
NeoCryl® BT-100	40	25	2.3	8	Suitable for low resin containing inks for flexo applications, providing optimized rheology behavior, reversibility, pigment wetting, flexibility and compatibility with other resins
NeoCryl® BT-101	40	50	2.1	110	High viscosity at low solids content when neutralized. It exhibits high color strength with excellent wetting properties and has fast film formation properties
NeoCryl® BT-103	45	50	2.1	—	Suitable for low resin containing inks for pre- and post-print flexo applications, providing optimized rheology behavior, reversibility, pigment wetting, hardness and flexibility and cost in use efficiency
NeoCryl® BT-107-S	45	50	2.1	12	Suitable for low resin containing inks for pre- and post-print flexo applications, providing fast film formation, optimized rheology behavior, reversibility, pigment wetting, heat resistance and cost in use efficiency
NeoCryl® BT-175	40	50	2.8	24	Low viscosity at high solids which is stable over a wide pH range eliminating the need for sensitive pH control during on-the-press operation
NeoCryl® BT-199	40	15	5.5	—	Exhibits high clarity and flexibility, good pigment wetting. Recommended for adhesive systems where clear transparency is required
NeoCryl® BT-207	43	25	2.8	—	Ideal for glass bottle labeling adhesive applications in high-speed labeling processes

## Bayhydrol® UA/NeoPac™ – Waterborne Polyurethane Acrylic Hybrid Dispersions

Product	Hybrid Type	Neutralizing Agent	Solids %	Ultimate Tensile Strength psi	Elongation at Break %	100% Modulus psi	Acid # (on solids)	MFFT °C	Features/Benefits
<b>Bayhydrol® UA 2961</b>	Urethane/Acrylic	TEA	43	3800	80	N/A	17	10	Can be used in the formulation of ambient-cure or bake coatings for a wide range of rigid and flexible substrates such as wood, metal, fiberglass, vinyl, and other plastic substrates
<b>NeoPac™ E-129</b>	Urethane/Acrylic	TEA	40	--	--	--	--	60	Designed for application on wood, metal and plastic substrates. Good blend partner with most acrylic resins to improve blocking, hardness and sanding without lost film transparency
<b>NeoPac™ E-200</b>	Urethane/Acrylic	--	39	--	--	--	--	<0	Specifically developed for Flexo and Gravure laminating inks for packaging films
<b>NeoPac™ E-225</b>	Urethane/Acrylic	TEA	35	--	--	--	--	50	Designed for decorative applications and wood flooring. Provides low yellowing, chemical resistance, and rapid black heel mark resistance development
<b>NeoPac™ HP-5080</b>	Urethane/Acrylic	TEA	40	--	--	--	--	--	For use in difficult restoration coating applications as a stain and odor blocking primer to lock in odors from fire, pet, and water damage
<b>NeoPac™ R-9020</b>	Urethane/Acrylic	TEA	40	4300	<100	N/A	15	--	Designed for architectural, industrial and printing and packaging applications. High performance with excellent adhesion to BOPP and PET and ideally suited for the formulation of printable and/or protective coatings
<b>NeoPac™ R-9031</b>	Urethane/Acrylic	TEA/ NH <sub>3</sub>	36	--	--	--	--	--	Suitable for use in all wood finish applications. Has crystal clear finish with excellent chemical resistance as well as good scratch and mar resistance
<b>NeoPac™ R-9033</b>	Urethane/Acrylic/Alkyd	TEA	33	--	--	--	--	--	Developed for fast curing 1K wood finishes. Excellent durability and chemical resistance, fast cure rate, high gloss and clarity
<b>NeoPac™ R-9036</b>	Urethane/Acrylic	TEA	40	4700	175	3500	18	53	Designed for architectural and industrial applications. Coatings are durable and have a non-yellowing finish which is highly stain resistant
<b>NeoPac™ R-9045</b>	Urethane/Acrylic	TEA	45	4400	350	4100	14	53	Optimized for use in interior wood flooring applications due to the high urethane content. In lab testing as a concrete coating, a high level of hot tire resistance can be achieved
<b>NeoPac™ R-9250</b>	Urethane/Acrylic	NH <sub>3</sub> / 1-Ethyl Piperidine	45	4006	194	3549	12	45	High solids, water-based urethane/acrylic copolymer designed for industrial applications

## Bayhydrol®/Decovery®/NeoRez® – Polyurethane Dispersions

Product	Dispersion Type	Neutralizing Agent	Solids %	Ultimate Tensile Strength psi	Elongation at Break %	100% Modulus psi	Acid # (on solids)	MFFT °C	Application Areas	Features/Benefits
Bayhydrol® 140 AQ	PES	Na Salt	40	5300	450	800	0	<0	Adhesion promoters in metal/plastic composite structures, textile and leather coatings and primers for rigid surface coatings	Highly flexible coatings, excellent mechanical stability
Bayhydrol® XP 2637	PC	TEA	40	3200	400	710	10	<0	Rigid and flexible substrates such as leather, vinyl-coated fabric, textiles, plastics and metals	Flexible, outstanding weathering, good abrasion resistance
Bayhydrol® UH 2305	PES	Na Salt	50	6200	1000	400	0	<0	Used in combination with hydroxy functional resins for highly flexible 2K soft feel coatings	Yields films with a soft-touch and good resistance to abrasion and water
Bayhydrol® UH 240			40	4000	1800	200	0	<0	Flexibilization of 2K industrial coatings, as well as soft-touch coatings	Fast drying, high elongation, good water resistance and early sandability
Bayhydrol® UH 2606	PC	EDIPA	35	7400	450	3000	23	45	Plastic substrates and wood materials and PVC floor coatings	Broad adhesion profile, tough yet flexible with very high hardness, yields coatings with good leveling, chemical and weather stability
Bayhydrol® UH 2648		TEA	35	4600	560	912	22	<0	Well suited for metallic coating systems, fillers and topcoats and especially plastic substrates	Provides excellent miscibility with other PUD's and has very good optical properties
Bayhydrol® UH 2660/1	PES	Na Salt	35	5800	400	2000	0	<0	Used in the formulation of highly flexible 2K PUR topcoats	Yields films with good surface handle, very good resistance to solvents and very good hydrolytic stability
Bayhydrol® UH 2864	PUD	N/A	60	363	500	203	-	<0	Elastomeric roof, waterproofing, construction coatings	High elongation, strong tensile strength, low water absorption and good weathering stability
Bayhydrol® UH 2889	PC	DMEA	40	4800	425	450	12	<0	1K peelable coatings	Improved scratch resistance, gasoline resistance, excellent durability
Bayhydrol® UH 2894	PEth/PC	Na Salt	60	4351	770	—	0	<0	Automotive primer surfacer or stone chip functional coatings. Also used in automotive OEM, plastics, automotive refinish and industrial coatings	High solids content, outstanding resistance to hydrolysis and rubber-elastic binder
Bayhydrol® UH 2952/1	PC	DMEA	40	6000	1000	450	12	<0	Used as a binder for moisture-cure and oven drying basecoats in 2K systems for automotive primers and refinish, plastics and industrial coatings	High resistance to yellowing, very good wet film transparency and very good abrasion resistance. Films are hard but flexible
Bayhydrol® UH 340/1	PEth / PC	Na Salt	40	3800	694	320	0	<0	Used as a binder in highly flexible water-thinnable coatings for wood, metal, plastics and mineral substrates	Highly elastic for the flexibilization of hard PAC and PUR dispersions for 1K industrial coatings
Decovery® SP-2022 XP	PES	TEA	35	—	—	—	6	<5	Suitable for wood and floor coatings	Provides an inherent matte appearance, chemical resistance, black heel mark and scuff resistance with low polishing over time. 35% 14C content
NeoRez® R-1011	PEth	TEA	32	—	—	—	6	—	Offers a unique combination of low slip soft-feel with low gloss coating for flexible packaging	Provides a soft feel effect along with a matte appearance. Can achieve good chemical resistance when crosslinked with a suitable hardener
NeoRez® R-1030	PEth	TEA	32	—	—	—	6	—	Offers a unique combination of low slip soft-feel with low gloss coating for flexible packaging	Provides rubbery feel effect and matte appearance. It is ideally suited for coating onto filmic substrates for post lamination processes. Good chemical resistance can be obtained when crosslinked with a suitable hardener

## Bayhydrol®/Decovery®/NeoRez® – Polyurethane Dispersions (continued)

Product	Dispersion Type	Neutralizing Agent	Solids %	Ultimate Tensile Strength psi	Elongation at Break %	100% Modulus psi	Acid # (on solids)	MFFT °C	Application Areas	Features/Benefits
NeoRez® R-2005	PEth	DMEA	35	4400	138	3700	19	10	Solvent-free PUD for use in the decorative and industrial markets	Suitable for clear and opaque formulations on a range of substrates providing hard, chemical and abrasion resistant coatings
NeoRez® R-2015	PEth	DMEA	35	4400	138	3700	19	10	Suitable for a broad range of substrates including wood, metal and plastic	Hard urethane dispersion, ideally suited for blending with acrylic emulsions providing abrasion, chemical, and humidity resistance
NeoRez® R-2180	PES	TEA	35	—	155	—	15	20	Decorative and industrial applications	Provides a good toughness to hardness balance, high abrasion and scratch resistance. Excellent chemical, black heel mark and scuff resistance
NeoRez® R-2190	PES	TEA	38	—	—	—	—	<5	Decorative and industrial applications	Provides good toughness, black heel mark and scuff resistance at very low cosolvent demand
NeoRez® R-4000	PC	TEA	35	—	—	—	17	78	Designed to give high mechanical and chemical resistance for the flexible packaging market	Provides high chemical and mechanical resistance in 1K and can be crosslinked with suitable hardeners for 2K applications
NeoRez® R-600	PEth	NH <sub>3</sub>	33	—	—	—	21	<0	Designed for filmic substrate primer applications	Provides excellent adhesion to a variety of plastic substrates. Very high bond and humid seal strength when topcoated with a sealable product
NeoRez® R-605	PEth	NH <sub>3</sub>	33	—	—	—	—	—	Designed for filmic primer applications	Provides excellent adhesion to a variety of plastic substrates used in the flexible packaging industry
NeoRez® R-610	PEth	TEA	28	—	—	—	—	<0	Designed for filmic substrate primer applications	Provides excellent adhesion to a variety of plastic substrates. Very high bond and humid seal strength when topcoated with a sealable product
NeoRez® R-620	PEth	NH <sub>3</sub>	36	—	—	—	—	33	Designed for filmic substrate primer applications	Provides excellent adhesion to a variety of plastic substrates. Very high bond and humid seal strength when topcoated with a sealable product
NeoRez® R-9065	PES	TEA	43	—	—	—	—	41	Used in high performance wood finishes and architectural clear coatings	Self-crosslinks at ambient conditions forming films with excellent alcohol resistance. Exhibits high clarity with good block and print resistance
NeoRez® R-966	PEth	TEA	33	—	225	—	—	—	Automotive and general plastic coatings	Yields tough, flexible films with exceptional abrasion resistance, ultraviolet light stability, water and chemical resistance

## Bayhydrol® UH/Decovery®/NeoRez®/NeoPac™ – Oxidatively Curing Dispersions for 1K Systems

Product	Dispersion Polyol Type	Neutralizing Agent	Solids %	Tensile Strength psi	Elongation at Break %	100% Modulus psi	Acid # (on solids)	MFFT °C	Application Areas	Features/Benefits
Bayhydrol® UH 2557	PES	TEA	35	4350	280	2234	23	38	Binder for the formulation of water-reducible coatings and sealers for wood and wood materials	Excellent mechanical and chemical resistances, in particular black heel mark resistance
Bayhydrol® UH 2592	PES	EDIPA	45	—	—	—	24	2	Used in formulation of aqueous air-drying and forced-drying, high-gloss coatings and primers. Mainly used for industrial finishes	Exhibits quick drying and high hardness. Very good water resistance and excellent corrosion resistance
Bayhydrol® UH 2593/1	PES	TEA	35	6500	39	N/A	25	60	Binder for the formulation of water-reducible coatings and sealers for wood and wood materials	Developed for the formulation of both 1K and 2K wood coating systems. Very good film transparency, high hardness and good black heel mark resistance
Bayhydrol® UH 2874	PES	EDIPA	40	—	—	—	—	40	Binder for the formulation of water-reducible coatings and sealers for wood and wood materials	Used to formulate 1K high performing parquet coatings, with very good chemical and black heel mark resistance
Decovery® CQ-8650	PES	—	42	—	—	—	—	>20	Designed for 1K wood floor finishes and varnishes. Superior durability which allows for use on gym floors and high-traffic areas	Exhibits excellent scratch and chemical resistance. 54% 14C content
Decovery® SP-8030	PES	Amine free	42	—	—	—	—	—	Suitable for interior and exterior decorative and industrial applications	Provides fast drying, high transparency, rapid hardness and scratch resistance. Ideal for low odor applications and indoor quality requirements. 43% 14C content
Decovery® SP-8607	PES	DMEA	32	—	—	—	21	<20	Developed for fast curing, 1K wood floor finishes. 26% 14C content	Excellent black heel mark and scuff resistance, delivers high gloss, amber finish with excellent wood wetting
NeoRez® R-9029	PES	TEA	32	—	—	—	21	<5	Self crosslinking fatty acid modified waterborne aliphatic urethane dispersion for decorative and industrial applications	Suitable for clear formulations providing excellent durability, chemical resistance, wood wetting, scratch and abrasion resistance and has very good sandability in base coat formulations
NeoRez® R-9035	PES	TEA	34	—	—	—	21	<5	Self crosslinking aliphatic urethane alkyd for wood coatings for use in decorative applications	Suitable for 1K formulations providing excellent black heel mark and scuff and chemical resistance
NeoPac™ OX87-1 40W	PES	—	40	—	—	—	—	—	Suitable for clear and pigmented systems for a broad range of applications including wood, furniture, metals and flooring	Provides wood wetting, hardness, scratch-resistance and transparency
NeoPac™ PU-480	PES	TEA	42	—	—	—	—	0	Suitable for low VOC, fast drying decorative paint, stains and light industrial metal coatings	Offers strong resistance properties and combines high gloss with exterior durability

## Bayhydrol® UV/NeoRad™ R – UV-Curable Polyurethane Dispersions

Product	Solids %	Visc. mPa*s	Physically Drying	Biocontent	Application Areas	Features/Benefits
Bayhydrol® UV 2280/1	39	60	Yes	No	UV-curable coatings for wood / wood materials	Outstanding physical drying. Particularly suitable for use in aqueous pigmented UV-curing coatings
Bayhydrol® UV 2282	39	160	Yes	No	UV-curable coatings for wood / wood materials	Well-balanced property profile, good adhesion on various plastics
Bayhydrol® UV 2317/1	37	100	Yes	No	UV-curable coatings for wood / wood materials	Good clarity, wet-film transparency and grain wetting. Does not contain intentionally added organotin compounds
Bayhydrol® UV 2689/2	42	100	No	No	UV-curable clear, deep-matte, and high-gloss coatings for plastics	High gloss, hardness, scratch resistance while maintaining good leveling. Does not contain intentionally added organotin compounds
Bayhydrol® UV 2720/1	40	<200	Yes	No	Plastic coatings and resilient flooring	Thermoformable product ideal solution for post formable coatings
Bayhydrol® UV CQ 2877	40	<500	Yes	Yes	UV-curable coatings for wood and wood materials	Self-crosslinking UV-curing PUD, fast water release, good chemical resistance, and in-can stability. Does not contain intentionally added organotin compounds. Bio-based content 38% as measure by <sup>14</sup> C method
Bayhydrol® UV 2923	40	250	Yes	Yes	UV-curable pigmented coatings for wood and wood materials	Excellent storage stability, fast drying / water release, good stain resistance in pigmented coatings, and low VOC. 17% biobased by <sup>14</sup> C method
NeoRad™ R-520	40	90	Yes	No	UV-curable clear, deep-matte, and high-gloss coatings for plastics	Suitable for furniture coatings which require fast drying and tack before curing while providing hardness, elasticity and chemical resistance after curing
NeoRad™ R-540	40	175	—	No	Furniture coatings and label coatings to enhance adhesion	Provides hardness, chemical resistance and adhesion wood, plastics and coated paper substrates after curing. Formulations need to be pre-dried to release water prior to UV/EB curing
NeoRad™ R-570	42	200	No	No	UV-curable wood and wood materials for office, lab and commercial furniture	Designed to offer exceptional chemical resistance properties for furniture and kitchen cabinet coatings
NeoRad™ R-1500	32	600	—	No	Paper coatings and overprint lacquers	Good matting and alcohol resistance with broad adhesion profile for soft-feel coatings

## Uradil™ – Waterborne Alkyds

Products	Solids %	Viscosity	pH	Oil Length %	Features/Benefits
Uradil™ AZ-760	53	550	8	40	Medium oil alkyd suitable for topcoats on wood and metal including corrosion resistant primers
Uradil™ AZ-800	48	25	7.5	—	Provides multi-substrate adhesion, low yellowing, toughness and easy clean up. Suitable for clear and opaque formulations for low VOC trim enamel and wall paint applications

## Haloflex™ – Vinyl Acrylic Copolymer

Product	Type	Solids %	Visc. mPa*s	pH	MFFT °C	Features/Benefits
Haloflex™ 202 C	vinyl acrylic/vinylidene chloride/acrylic terpolymer	60	45	1.5	12	Very good anti-corrosion properties used in bridge and shipping containers. Designed for maintenance primers, automotive under-body/under-hood coatings and rust converting products or other substrates requiring excellent barrier properties

## Baybond® – PUR Dispersions for Glass Fiber Sizing

Product	Type	Solids, %	Visc. mPa*s	pH	Tensile Strength psi	Elongation at break,%	100% Modulus, psi	Tg °C
Baybond® PU 330	PES	30	<140	7.25	145	2000	73	-56
Baybond® PU 401A	PES	50	≤70	7.5	7400	1200	435	-51
Baybond® PU 403	PES	39	<18	7.0	5500	1000	500	-47
Baybond® PU 405	PEth	33	<18	7.0	1600	400	650	-65
Baybond® PU 406	PEth	35	<22	6.5	2900	700	540	-72

## Impranil® – Aqueous PUR Dispersions for Textile Coatings

Product	Type	Solids %	Visc. mPa*s	pH	Tensile Strength, psi	Elong. at break, %	100% Modulus, psi	Tg °C	Features/Benefits
Impranil® DAH	Aromatic/PEth	35	<800	8.0	1500	700	300	-49	Flexible tie coat with good resistance to hydrolysis, affinity to high solids and different kinds of substrates
Impranil® DL 1068	PEth	50	<1800	6.75	3000	1050	225	-79	High resilience, suitable for mechanical foaming, high lightfastness and softness
Impranil® DL 1380	PES	60	<1000	7.0	3625	1500	203	-40	High flexibility, high solid content, soft handle and good lightfastness
Impranil® DL 1537	PES	60	<1000	7.0	2175	1200	188	-4	Very good resistance to hydrolysis, good adhesion, suitable for mechanical foaming, soft handle, high lightfastness, good stirring stability
Impranil® DL 1554	PES	60	≤1000	7.5	3770	1000	362	-49	Exhibits high flexibility, high lightfastness and is also suitable for mechanical foaming
Impranil® DL 1618	PES	50	<250	7-9	1305	1160	145	-4	Excellent adhesion with different textile substrates. Especially suitable for white ink layer digital printing.
Impranil® DL 1701	PC	40	750	7.5	3625	400	725	-33	May be used as a finish and/or topcoat in numerous applications such as outerwear, bags/luggage, fashion shoe uppers, technical articles and upholstery
Impranil® DL 2077	PC	35	≤5000	8.0	3900	200	3300	-38	High resilience, suitable for mechanical foaming, high lightfastness and softness
Impranil® DL 2611/1	PES	40	<1000	7.0	5800	400	2000	-33	Very good resistance to hydrolysis and adhesion on certain types of PVC plastisols, high lightfastness, high scratch resistance, possesses a dry surface with good sliding properties
Impranil® DL 3040	PES	40	<100	7.0	5800	900	290	-54	High flexibility and alcohol resistance, good lightfastness
Impranil® DLC-F	PC	40	<2000	7.5	7200	600	725	-33	Very good resistance to hydrolysis, good resistance to aging, high scratch resistance, good lightfastness and high flex resistance
Impranil® DLC-T	PES/PC	35	≤1000	8.0	870	400	725	-45	Exhibits very good resistance to hydrolysis, good durability, high scratch resistance, good lightfastness and high flex resistance
Impranil® DLH	PES	40	<1000	6.5	7250	1000	725	-37	This product exhibits high flexibility, lightfastness and adhesion. It is also suitable for mechanical foaming
Impranil® DLN-SD	PES	40	<500	6.5	5000	1500	300	-40	High flexibility, soft handle, suitable for mechanical foaming, good lightfastness
Impranil® DLN W 50	PES	50	<1000	6.5	5220	1500	290	-40	Exhibits high flexibility, high solids content, good lightfastness, and is suitable for mechanical foaming
Impranil® DLP-R	PES	50	<500	7.0	1500	1600	200	-4	Very good resistance to hydrolysis, good adhesion to polyolefins, high solids content, good stirring stability, soft handle, good lightfastness
Impranil® DLS	PES	50	<2000	7.5	4350	1000	360	-42	High flexibility, suitable for mechanical foaming, good lightfastness
Impranil® DLU	PC/PEth	60	<500	8.0	4350	900	360	-69	Outstanding resistance to hydrolysis, excellent mechanical foaming, crosslinkable, high scratch and crack resistance, good lightfastness and adhesion properties to certain types of PVC
Impranil® DLV/1	PC/PEth	40	<40	6.5	3600	1200	300	-47	Outstanding resistance to hydrolysis, crosslinkable, high scratch resistance, good lightfastness, suitable for mechanical foaming

## Dispercoll® U/NeoRez® R – PUR Dispersions for Adhesive and Sealant Application Areas

Product	Solids %	Visc. mPa*s	Crystallization Tendency*	Recommended Min. Bond Line Temp. °C	Features/Benefits
Dispercoll® U 2612	50	425	+	65-75	Especially suitable for heat activation bonding applications with high initial heat resistance, e.g., for footwear sole bonding
Dispercoll® U 2682	50	>1000	++	50-60	Lower MW crystallizing PUD especially suitable for applications at low heat activation temperatures in the furniture, automotive, and packaging lamination industries
Dispercoll® U 2710	45	<1000	+	65-75	Especially suitable for heat activated bonding applications with high initial heat resistance, high shear stability, suitable for footwear sole bonding
Dispercoll® U 2849 XP	50	<2000	-	80-100	Suitable for adhesive applications with improved climate resistance
Dispercoll® U 42	50	475	--	80-100	Especially suitable for heat activation above 80°C, gives high heat resistance even when used without crosslinker
Dispercoll® U 53	40	325	++	60-70	Raw material for the formulation of heat-activated adhesives for use in the furniture and automotive industries
Dispercoll® U 54	50	320	+	60-70	Raw material for the formulation of heat-activated adhesives for use in the furniture, automotive and especially the footwear industries
Dispercoll® U 56	50	475	+	55-65	Especially suitable for bonding at low heat activation temperatures in the furniture and automotive industries
Dispercoll® U 58/1 Plus	50	<1200	++	50-70	Especially suitable for heat activation bonding applications with high initial heat resistance, good tack properties, e.g., footwear sole bonding
Dispercoll® U 66	48	<1000	-	55-75	Especially suitable for adhesive applications with improved climate resistance at low heat activation temperatures
Dispercoll® U 84	40	1000	++	Not relevant	Suitable for 2K spray application processes such as foam bonding
Dispercoll® U 8755	45	<1000	++	80-100	Especially suitable for applications with heat activation above 80°C, gives high heat resistance even when used without crosslinkers
Dispercoll® U XP 2643	40	<1000	--	>RT	Especially suitable for bonds at low temperatures including RT, suitable for packaging lamination
NeoRez® R-9621	38	175	--	80-100	For use in industrial laminating adhesives requiring a low VOC and for printing and packaging applications. Has excellent adhesion to vinyl, PES, and low density PE
NeoRez® R-9340	40	850	--	60-70	Designed for printing and packaging. Provides excellent wetting, film formation and adhesion to a variety of substrates

\* ++: very fast | +: fast | 0: medium | -: low | --: non-crystallizing

## Dispercoll® C – Polychloroprene Aqueous Dispersions for Adhesive Application Areas

Product	Solids %	pH	Crystallization	Gel Content	Application Areas	Features/Benefits
Dispercoll® C 2325	55	12.0	High	Medium-low	Aqueous adhesives, waterborne contact cements and laminating adhesives for the automotive industry, mattresses and seating assembly	Improved pH stability, contains hydroxyl functionality for crosslinking
Dispercoll® C 74	58	13.0	Medium	Medium	Furniture, automotive, footwear, mattresses and construction industries	Provides good heat resistance and long open time
Dispercoll® C 84	55	13.0	High	Very low	Waterborne contact cements and laminating adhesives for the automotive, construction and furniture industries	Fast development of high strength bonds
Dispercoll® C VP LS 2372/1	58	13.0	Low	Medium-low	Automotive, furniture, mattresses, footwear and construction industries	Adhesives with a long open time, outstanding adhesion to non-polar substrates

## Dispercoll® S Nano-Silica Additives for Dispercoll® C

Product	Solids %	Particle Size, (nm) (typical)	Specific Surface, (m <sup>2</sup> /g) (typical)	pH	Features/Benefits
Dispercoll® S 3030	30	30	300	9.0	Suitable for contact adhesives with high strength and heat resistance

## Pergut® – Chlorinated Rubber

Product	Visc. mPa*s 18.5% in Toluene	Application Areas	Features/Benefits
Pergut® B 10	10.0	Used to formulate fast drying anticorrosion coatings	Good weather stability and resistance to water and chemicals
Pergut® B 20	20.0	Binder of anticorrosion coatings, used to formulate fast drying anticorrosion coatings	Good weather stability and resistance to water and chemicals
Pergut® S 10	11.0	Used to formulate fast drying anticorrosion coatings	Good weather stability and resistance to water and chemicals
Pergut® S 20	20.0	Used to formulate fast drying anticorrosion coatings as well as abrasion-resistant concrete floor coatings and road marking paints	Good weather stability and resistance to water and chemicals
Pergut® S 40	42.0	Used to formulate fast drying anticorrosion coatings	Improves drying properties and resistance to inorganic acids, good weather stability and resistance to water and chemicals
Pergut® S 90	92.0	Used to formulate fast drying swimming pool and concrete coatings	Good weather stability and resistance to water and chemicals
Pergut® S 130	150.0	Especially suitable for the formulation of primers or adhesives for rubber-to-metal bonds	High polarity
Pergut® S 170	165.0	Especially suitable for the formulation of primers or adhesives for rubber-to-metal bonds	High polarity

\*Supplied as fine powder

## NeoCryl® B – Acrylic Beads

Product	Tg °C	Acid Value	Softening °C	Application Areas	Features/Benefits
NeoCryl® B-723	48	5.5	180	Provides heat resistance and durable color retention, good adhesion to aluminum and metallized films, nitrocellulose compatible and is used in specialty gravure inks (gold, pearlescent, etc.)	Solid acrylic copolymer with excellent durability and adhesion for use in metal and plastic coatings
NeoCryl® B-728	111	6.5	200	Hard solid acrylic homopolymer with excellent solvent and chemical resistance for use in a wide variety of coating and ink applications	Durable and abrasion resistant, excellent water, solvent, chemical and heat resistance . Suitable for wallpaper printing and hot stamping
NeoCryl® B-804	33	7	160	Solid methacrylic homopolymer with excellent flexibility and adhesion characteristics for use in printing inks, coatings and aluminum lacquers	Highly thermoplastic resin, used as adhesion promoter for flexo and gravure printing inks. Adhesion to aluminum and good tolerance with range of binders
NeoCryl® B-805	99	1	190	A solid MMA/BMA copolymer with an average MW of 85000. Offers good chemical resistance	Suitable for plastic and vinyl coatings, flexo and gravure printing inks and screen inks

## NeoCryl® B – Acrylic Beads (continued)

Product	Tg °C	Acid Value	Softening °C	Application Areas	Features/Benefits
NeoCryl® B-811	110	1	200	Solid methacrylic homopolymer with excellent chemical resistance for use in coatings, lacquers and inks	Durable resin with plasticizer and chemical resistance. Good aluminum adhesion, used as a release coating on PET and for PVC printing and metallic inks
NeoCryl® B-813	64	10	160	A solid methacrylic copolymer that is alcohol soluble and provides films with low residual odor	Product is suitable for flexo and gravure printing packaging applications
NeoCryl® B-814	52	10	—	Solid acrylic copolymer with high ethanol tolerance for use in flexo printing inks with fast solvent release and wide adhesion characteristics	Clear, non-blocking, tough and flexible. Low solvent retention and good adhesion to flexible films such as cellophane and PVC. Flexo printing inks for packaging applications with low odor and fast drying overprint varnishes
NeoCryl® B-819	49	16	—	Acrylic-styrene copolymer, developed for flexo and gravure inks in combination with nitrocellulose	Good NC compatibility and high alcohol tolerance for flexo inks. Used for shrink sleeve applications. Excellent grinding vehicle
NeoCryl® B-826	66	7	—	Solid acrylic copolymer for use in a range of applications	Suitable for use in clear and opaque formulations delivering outdoor durability, chemical resistance, hardness, flexibility and abrasion resistance
NeoCryl® B-851	60	15	175	Hydroxyl functional acrylic-styrene copolymer, developed for use in 2K, isocyanate curable, gravure inks and coatings	Used as pigment dispersant. Suitable for printing on aluminum and flexible packaging substrates
NeoCryl® B-864	65	1	175	High molecular weight isobutyl-methacrylate homopolymer	Suitable for gravure, screen inks and aerosols providing excellent free flowing films as well as clear, tough but flexible films. Stable with aluminum and bronze pigments
NeoCryl® B-871	59	1	135	Solid acrylic copolymer with excellent solubility in aromatics, esters and ketones which is compatible with alkyd resins	Good pigment wetting of non-polar surfaces, superior adhesion on plastics
NeoCryl® B-891	77	13	—	Used in gravure inks and coatings, energy curable inks and overprint varnishes. Also for concrete sealers and seamless flooring	Provides easy solubility, good chemical resistance, petrol resistance, hardness and good adhesion to difficult substrates

## Hybrane™/Uralac® – Acrylic Polyols for 2K Solventborne Urethane Coatings

Product	Solids %	Solvent	Equiv. wt.	Visc. mPa•s	Application Areas	Features/Benefits
Hybrane™ CY245 E-75	75	BA	553	4000	Suitable for high solids industrial primers and topcoats having a low viscosity and VOC, providing an early tack free time even at low temperature cure. Especially suitable for automotive refinish applications	Hyperbranched acrylic resin designed for a low-temperature cure or fast drying 2K high-solids coatings
Uralac® CY240 EF-75	75	BA/MPA (80:20)	567	6000	Suitable for 2K car refinish enamels, solid color and clear topcoated systems	Weather and yellowing resistant as well as good chemical and petrol resistance
Uralac® CY250 E-75	75	BA	453	6000	Suitable for 2K car refinish enamels solid color and clear topcoated systems	Weather and yellowing resistant along with good chemical and petrol resistance

## Desmophen® C – Polycarbonate Diols

Product Name	Equiv. wt.	Application Areas	Features/Benefits
Desmophen® C 1100	515	Used for high-grade building blocks in PUR systems for both coatings and sealants for both interior and exterior applications	Very good weatherability, lightfastness, hydrolytic stability and elasticity
Desmophen® C 1200	1000	Used for binder for high-grade flexible coatings and sealants for decorative coatings, sealing compounds and joint sealants	Characterized by good weather stability and resistance to hydrolysis
Desmophen® C 2102	500	Can be used in high-grade building blocks for a variety of PUR systems for both interior and exterior applications	Solvent-free and waxy at room temperature. Very good weatherability, lightfastness, hydrolytic stability and elasticity
Desmophen® C 2202	1000	Suitable as a high-grade building block for a variety of PUR systems for both interior and exterior applications	Very good weatherability, lightfastness, hydrolytic stability
Desmophen® C XP 2613	1000	Used as a binder for high grade flexible coatings and sealants in decorative coatings, sealing compounds and joint sealants	Characterized by good weather and hydrolytic stability

## NeoRez® – Polyester Polymers for Adhesive Application Areas

Products	Solids %	Solvent	Visc. mPa•s	Features/Benefits
NeoRez® P-900	50	EA	2500	Excellent adhesion to a broad range of film substrates including PET, CPP, polyethylene and aluminum. Can be used neat or crosslinked to enhance adhesive performance. Can be used in adhesives for retort end applications
NeoRez® P-925	50	EA	2500	
NeoRez® PL-850 XP	70	EA	3250	
NeoRez® PL-806 XP	70	EA	3250	

## NeoRez® U – Solventborne Inks for Print and Packaging Applications

Products	Solids %	Solvent	Visc. mPa*s	Features/Benefits
NeoRez® U-329	55	EA/EtOH	8000	Film forming polyurethane recommended in flexo and for gravure printing ink formulations on a wide variety of flexible films, especially OPP, PE and PET
NeoRez® U-335	45	EA/EtOH	1850	Low solvent retention and good NC compatibility
NeoRez® U-347	75	EA/EtOH	1100	Non-reactive, non-film forming flexible PUR resin designed for surface printing inks and also can be used for some types of laminating
NeoRez® U-371	42	EA/EtOH	1200	Hydroxyl functional semi aliphatic elastomeric polyurethane with a high MW, free of NCO and designed for surface and lamination printing inks
NeoRez® U-391	70	EA/EtOH	800	Semi-film forming PUR resin for use in surface printing and lamination printing inks
NeoRez® U-392	75	EA/EtOH	150	Co-binder for gravure surface printing and for extrusion lamination inks
NeoRez® U-394	70	EA/EtOH	1000	Semi-film forming PUR resin for use in surface printing and lamination printing inks
NeoRez® U-395	45	EA/EtOH	3600	Recommended in flexo and for gravure printing ink formulations on a wide variety of flexible films, especially OPP, PE and PET
NeoRez® U-397	45	PA/NPA	1800	Suitable to formulate ethanol free laminating inks
NeoRez® U-415	57	EA/EtOH	8000	High-solids binder for laminating inks with excellent high-speed printability for improved productivity. Also suitable in surface printing applications such as shrink sleeves
NeoRez® U-417	50	IPA/EA	2500	Excellent high-speed printability, combined with high bond strength. Suitable for a broad range of retortable laminating ink applications
NeoRez® U-431	33	EA/IPA	2000	Targeted for gravure printing and can be formulated with both vinyl and nitrocellulose based pigment concentrates resulting in highly universal laminating inks
NeoRez® U-471	51	EA/EtOH	3000	Excellent bond strength in a broad variety of laminates, especially PET. Excellent alcohol tolerance, also in combination with NC. Non yellowing. Suitable for retorting, sterilization and pasteurization applications
NeoRez® U-475	55	EA/EtOH	950	Retortable laminating binder with increased bond strength, printability and immediate adhesion to AlOx, SiOx and OPA. Strongly recommended for high opacity white inks and suitable for sole binder colored inks
NeoRez® U-476	55	EA/IPA	2500	Universal performance in laminating ink applications. Specific features are a high opacity in white inks, excellent high speed printability and immediate adhesion properties

## Desmophen®/Uralac® SY – Polyester Polyols

Products	Solids %	Solvent	Visc. mPa*s	Equiv. Wt.	Features/Benefits
Desmophen® 631 MPA	75	MPA	17500	267	Lightfast and weather-stable coatings, good chemical and abrasion resistance, outstanding gloss retention
Desmophen® 650A-65 MPA	65	MPA	15000	325	Lightfast and weather-stable coatings, well suited for uses requiring light stability and weatherability as well as good chemical and abrasion resistance; suitable substrates include metal, concrete, wood, plastics and paper
Desmophen® 651 MPA	65	MPA	14500	310	Used primarily with Desmodur N 75A resulting in coatings with excellent lightfastness, gloss retention and weather stability. It also exhibits very good resistance to chemicals and abrasion
Desmophen® 670 BA	80	BA	3000	485	Yields films with very good weather stability and excellent low temperature flexibility
Desmophen® 1200 BA	60	BA	55	567	Formulate coatings for substrates such as metal, wood and various plastics
Desmophen® 1300 BA	75	BA	1000	530	Especially suitable for the formulation of fast drying, 2K coatings. They are mainly used for clear and pigmented finishes for wood, chipboard and hardboard
Desmophen® R-221-75	75	MPA	7000	522	Weather resistant coatings; excellent grind medium, good flexibility
Desmophen® VP LS 2089	75	BA	10000	283	Pigmented aliphatic coatings with good chemical resistance, light stability, chalking resistance and gloss retention
Desmophen® 7116	80	BA	10000	386	High solids, high performance coatings for metal and plastic substrates
Uralac® SN856 S2G3-50 ND	50	50	1700	510	Interior can coatings. Good adhesion to aluminum, good block and chemical resistance, hardness and abrasion resistance
Uralac® SY944	96	BA	5500	206	Offers VOC and/or viscosity reduction for high solids coating applications, providing flexibility, chemical resistance, flow and durability

## Desmophen® – Amine Polyester Blends

Products	Solids %	Amine Number mg KOH/g	Visc. mPa*s	Equiv. Wt.	OH Number mg KOH/g	Features/Benefits
Desmophen® XP 2680	100	185-195	1000	151	170-190	Excellent for uses requiring high film build, light stability and weatherability as well as good chemical and abrasion resistance; suitable substrates include metal, concrete, wood, plastics and geotextiles

## Baycoll®/Desmophen® – Solvent-Free Polyester Polyols

Product	Visc. mPa•s	Equiv. Wt.	Features/Benefits
Baycoll® AD 1225	100 @ 75° C	249	Used to formulate adhesives with good hydrolysis for bonding wood, metal and plastic. Also suitable for reactive adhesives
Baycoll® AD 2047	7000 @ 75° C	1020	Used to formulate adhesives with good hydrolysis for bonding wood, metal and plastic. Also suitable for reactive adhesives
Baycoll® AD 2055	630 @ 75° C	1002	Used to formulate adhesives with good hydrolysis for bonding wood, metal and plastic. Also suitable for reactive adhesives
Baycoll® AD 5027	2800 @ 75° C	2004	On account of its high crystallinity it is particularly suitable for the formulation of reactive PUR hot-melt adhesives with high green strength
Baycoll® AV 2113	650 @ 75° C	515	Suitable for use in the formulation of reactive adhesives with low solvent content
Baycoll® CD 2084	120 @ 75° C	668	Formulate adhesives with good hydrolysis for bonding wood, metal and plastic. Also suitable for reactive adhesives
Desmophen® 1100	30500 @ 23° C	260	Can be used alone or in combination with other Desmophen® grades to formulate 2K PUR coatings for wood finishing
Desmophen® 1200	23500 @ 23° C	340	Clear and pigmented combinations of Desmophen® 1200 and more highly branched Desmophen grades are reacted with Desmodur® L, HL, and IL to formulate coatings for substrates such as metal, wood and various plastics
Desmophen® 1652	11000 @ 23° C	1060	Suitable for use in the formulation of flexible PU coatings
Desmophen® 1700	17500 @ 23° C	1310	Normally used as a flexibilizing component. Increases toughness and resistance to wear and abrasion of paint films. Good for furniture, floors and parquet
Desmophen® 1800	21500 @ 23° C	935	In combination with Desmodur® L, this yields highly flexible coatings for rubber, plastics and high-build flexible finishes
Desmophen® 670	2200 @ 23° C (80% in BA)	395	Combinations of Desmophen® 670 with Desmodur® N 75A or N 3390A BA/SN result in films with excellent low-temperature flexibility and very good weather stability
Desmophen® 800	850 @ 23° C (70% in MPA)	200	With Desmodur® L as the reaction partner, Desmophen® 800 yields hard films with good chemical resistance. These coatings are also characterized by high impact resistance, toughness and abrasion resistance
Desmophen® 850	410 @ 75° C	200	Can be combined with other suitable Desmophen® grades to formulate laminating coatings
Desmophen® XP 2488	12250 @ 23° C	105	Used primarily in combination with solvent-free Desmodur grades for in-mold coatings
Desmophen® VP LS 2249/1	1900 @ 23° C	110	Good for high quality, hard and weather-stable coatings. Also can be used for decorative gravel
Desmophen® VP LS 2328	800 @ 23° C	215	Flexibilizing component used in 2K PUR coatings

## Polyether Polyols

Product	Functionality	Typical OH No. mg KOH/g	Typical Molecular Weight	Visc. mPa*s	EO Tip
<b>Amine-Based Polyols</b>					
Multranol® 4050	4.0	630.0	360	19000	No
Multranol® 8114	4.0	395.0	570	8800	No
Multranol® 8120	4.0	360.0	620	25000	No
Multranol® 9138	3.0	700.0	240	785	No
Multranol® 9170	3.0	350.0	480	315	No
Multranol® 9181	4.0	770.0	290	36000	No
<b>Sucrose-Based Polyols</b>					
Multranol® 4030	5.8	380.0	860	1400	No
Multranol® 4034	5.2	470.0	630	33000	No
Multranol® 4035	3.0	380.0	440	600	No
Multranol® 8162	4.3	410.0	590	3600	No
Multranol® 8164	4.6	470.0	550	10500	No
Multranol® 9196	5.2	465.0	630	24000	No
<b>Polyether Polyols for Coatings and Adhesives</b>					
Arcol® LG-650	3.0	650.0	260	820	No
Arcol® LHT-112	3.0	112.0	1500	280	No
Arcol® LHT-240	3.0	238.0	710	250	No
Arcol® PPG-425	2.0	263.0	430	70	No
Arcol® PPG-725	2.0	147.0	763	120	No
Arcol® PPG-1000	2.0	111.0	1000	160	No
Multranol® 8175	3.0	370.0	450	322	No
Multranol® 9158	3.0	470.0	475	475	No
Multranol® 9198	2.0	515.0	218	55	No
Softcel® U-1000	3.0	168.0	1000	240	No
<b>Low-Monol Polyols</b>					
Acclaim® 2200	2.0	56.0	2000	340	No
Acclaim® 3300N	2.8	57.6	2730	507	No
Acclaim® 4200	2.0	28.0	4000	980	No
Acclaim® 6300	3.0	28.0	6000	1369	No

Product	Functionality	Typical OH No. mg KOH/g	Typical Molecular Weight	Visc. mPa*s	EO Tip
<b>Flexible Polyols</b>					
Arcol® 11-34	3.0	35.5	4740	850	Yes
Arcol® E-351	2.0	40.0	2800	520	Yes
Arcol® F-3022	3.0	56.0	3000	480	No
Arcol® F-3222	3.0	52.6	3240	520	Yes
Arcol® LG-56	3.0	57.0	3000	490	No
Arcol® LHT-42	3.0	41.0	4100	715	No
Arcol® PPG-2000	2.0	56.0	2000	340	No
Arcol® PPG-3025	2.0	37.0	3000	600	No
Arcol® PPG-4000	2.0	28.0	4000	980	No
Hyperlite® E-824	3.0	36.0	4680	830	Yes
Multranol® 3900	3.0	35.0	4800	790	Yes
Multranol® 3901	3.0	28.0	6000	1160	Yes
Multranol® 9111	2.0	28.0	4000	820	Yes
Multranol® 9139	3.0	28.0	6000	1150	Yes
Multranol® 9190	2.0	28.0	4000	900	Yes
Multranol® 9199	3.0	37.0	4550	1100	Yes
Softcel® VE-1100	2.4	120.0	1120	285	Yes

## Solvent

Abbreviation	Explanation
BA	n-butyl acetate
BG	butyl glycol
DMF	dimethylformamide
EA	ethyl acetate
EGMBE	ethylene glycol monobutyl ether
EtOH	ethanol
GBL	gamma-butyrolactone
i-BuOH	isobutyl alcohol
IPA	isopropyl alcohol
MEK	methyl ethyl ketone
MPA	1-methoxy-2propyl acetate
NMP	n-methylpyrrolidone
NPA	n-propyl alcohol
PA	propyl acetate
DPGDME	dipropylenglycoldimethylether
PGDA	propylene glycol diacetate
PGME	propylene glycol methyl ether
PGnBE	propylene glycol n-butyl ether
SN 100	Aromatic 100
SN 150	Aromatic 150
X	xylene

## Polymers

Abbreviation	Explanation
BOPP	biaxially oriented polypropylene
CAP	cellulose acetate propionate
CPP	cast polypropylene
EA	ethyl acrylate
EMA	ethyl methacrylate
EP	epoxy
EPDM	ethylene propylene diene terpolymer
GBL	gamma-butyro lactone
MMA	methyl methacrylate
NC	nitrocellulose
OPP	oriented polypropylene
PE	polyethylene
PET	polyethylene terephthalate
PPG	polypropylene glycol
PUD	polyurethane dispersion
PVB	polyvinyl butyral
PVC	polyvinyl chloride

## Neutralization Agents

Abbreviation	Explanation
DMEA	dimethyl ethanol amine
EDIPA	ethyl diisopropyl amine
NH <sub>3</sub>	ammonia
TEA	triethylamine

## Chemical Description

Abbreviation	Explanation
PAC	polyacrylic
PC	polycarbonate
PES	polyester
PEth	polyether
PUR	polyurethane





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