

## POLURENE - AROMATIC POLYURETHANE PREPOLYMERS

Product	% NV	Type	Solvent	Type of isocyanate	% Monomer	% NCO	Vx mPa*s @ 23°C	Max Gardner colour	Characteristics & main application
<b>POLURENE AD</b>	75	Adduct	Ethyl Acetate	TDI	< 0.5	12.5 - 13.5	1200 - 3000	1	Polyurethane adduct, with <b>low free TDI content</b> , for general purposes. High compatibility with Nitrocellulose, CAB, saturated polyesters, OH acrylic polyols and vinyl resins. Suitable for 2K varnishes and enamels .
<b>POLURENE FP 75</b>	75	Adduct	Ethyl Acetate	TDI	< 0.5	12.5 - 13.5	1200 - 3000	1	Polyurethane adduct with <b>low free TDI content</b> used for 2K adhesives and inks. Product in accordance with EU, BFR and FDA regulations for food packaging.
<b>POLURENE AD 67</b>	67	Adduct	Xylene MPA*	TDI	< 0.5	10.8 - 11.8	1200 - 3000	2	Polyurethane adduct, with <b>low free TDI content</b> , for general purposes. High compatibility with Nitrocellulose, CAB, saturated polyesters, OH acrylic and vinyl resins. For 2K varnishes and enamels.
<b>POLURENE AD 67 AB LV</b>	67	Adduct	Butyl Acetate	TDI	< 0.5	11.5 - 12.3	400 - 800	1	Polyurethane adduct, with <b>low free TDI content</b> , for general purposes. High compatibility with Nitrocellulose, CAB, saturated polyesters, OH acrylic polyols and vinyl resins. Suitable for 2K varnishes and enamels.
<b>POLURENE AD 72</b>	70	Adduct	Ethyl Acetate	TDI	< 0.5	9.5 - 10.5	2000 - 3000	1	Polyurethane adduct, with <b>low free TDI content</b> , for general purposes. High compatibility with Nitrocellulose, CAB, saturated polyesters, OH acrylic polyols and vinyl resins. Higher in reactivity and hadness than traditional adduct. Suitable for 2K varnishes and enamels.
<b>POLURENE MD 60 AB</b>	60	Prepolymer	Butyl Acetate	MDI		5.0 - 6.0	200 - 650	1	Polyfunctional polyisocyanate based on MDI. Excellent flexibility. Fast drying. In combination with isocyanurates it can improve scratch resistance and overcoating giving smooth surface and good brightness. It improves adhesion on difficult substrate.
<b>POLURENE MD 70 AE</b>	70	Prepolymer	Ethyl Acetate	MDI		9.5 - 9.9	1200 - 2000	1	Polyfunctional polyisocyanate based on MDI. Excellent flexibility. Fast drying. In combination with isocyanurates it can improve scratch resistance and overcoating giving smooth surface and good brightness. Suitable for 1K barrier coatings for wood with high oil content.
<b>POLURENE MD 1600</b>	100	Polyisocyanate	-	MDI		31 - 32	< 50	18	Polyfunctional polyisocyanate based on MDI. Excellent flexibility. Fast drying. Recommended for solvent free 2K PU coatings like self-levellings, sealants, adhesives and 2K primers.
<b>POLURENE TPI 27 AE</b>	27	Polyisocyanate	-	TPTI		7.0 - 7.4	< 50	18	Polyisocyanate especially developed for the formulation of products with good adhesion on melamine paper.

\* Metoxypropylacetate

NB: All specifications refer to the delivery form

## POLURENE - AROMATIC ISOCYANURATES

Product	% NV	Type	Solvent	Type of isocyanate	% Monomer	% NCO	Vx mPa*s @ 23°C	Max Gardner colour	Characteristics & main application
<b>POLURENE IR 51 AB</b>	50	Isocyanurate	Butyl Acetate	TDI	< 0.5	7.8 - 8.2	700-1200	1	Fast drying. Limited yellowing. Suitable for PU sealers and matt topcoats. Low free TDI content.
<b>POLURENE IR 51 AE</b>	50	Isocyanurate	Ethyl Acetate	TDI	< 0.3	7.8 - 8.2	100 - 400	1	Fast drying. Limited yellowing. Suitable for PU sealers and matt topcoats. It can be used also inks and adhesive field. Low free TDI content.
<b>POLURENE HR.B</b>	50	Isocyanurate	Butyl Acetate	TDI	< 0.5	7.8 - 8.2	700 - 1200	1	Fast drying. Limited yellowing. Suitable for PU sealers and matt topcoats. Low free TDI content.
<b>POLURENE HR.B.S.</b>	50	Isocyanurate	Butyl Acetate	TDI	< 0.5	7.0 - 7.4	400 - 800	1	Fast drying. Limited yellowing. Good elasticity. Suitable for PU sealers and matt topcoats. Good compatibility with Nitrocellulose. Low free TDI content.
<b>POLURENE SB 50 AB</b>	50	Isocyanurate	Butyl Acetate	TDI	< 0.5	8.0 - 8.4	200 - 600	1	Good flexibility. Long Pot life. Good solubility in aromatic solvents. Suitable for sealers, matt and semigloss topcoats. Low free TDI content.
<b>POLURENE KC</b>	50	Mixed Isocyanurate	Butyl Acetate	TDI MDI	< 0.5 < 5	7.8 - 8.0	200 - 400	1	Excellent elasticity and fast drying. Excellent sandability by hand or with sanding machine. It can improve the adhesion between the layers. High hardness. Suitable for PU sealers and matt topcoats.
<b>POLURENE 3031</b>	50	Isocyanurate	Butyl Acetate	TDI	< 0.5	8.5 - 9.0	250 - 650	1	Good flexibility. Fast drying. Limited yellowing. Rather long Pot-life. Suitable for PU sealers and matt top coat. Low free TDI content.
<b>POLURENE AC 510</b>	50	Isocyanurate	Butyl Acetate	TDI	< 1	7.0 - 7.4	50 - 300	1	Isocyanurate with excellent compatibility with Nitrocellulose, aromatic solvents, saturated polyesters, OH acrylic and vinyl resins. Good flexibility. Suitable for sealers and top coats for wood, metal and paper.
<b>POLURENE 60 T</b>	60	Isocyanurate	Butyl Acetate	TDI	< 0.5	9.5 - 9.9	1200 - 2000	1	High solid content. Good flexibility. Long Pot life. Good brightness. Good compatibility with aromatic solvents and Nitrocellulose. Suitable for pigmented and clear sealers, matt and gloss top coats. Low free TDI content.

NB: All specifications refer to the delivery form

## POLURENE - ALIPHATIC-AROMATIC ISOCYANURATES

Product	% NV	Type	Solvent	Type of isocyanate	% Monomer	% NCO	Vx mPa*s @ 23°C	Max Gardner colour	Characteristics & main application
<b>POLURENE OK.D.S</b>	60	Mixed Isocyanurate	Butyl Acetate	TDI HDI	< 0.5	10.0 - 11.0	1100 - 3300	1	Excellent hardness. Good flexibility. Good yellowing resistance. Good compatibility with Nitrocellulose, quite good compatibility with OH acrylic resins. Suitable for polishable varnishes and enamels for wood. Enamels with good colour retention for metal, plastics and other substrates.
<b>POLURENE OK.D</b>	60	Mixed Isocyanurate	Butyl Acetate	TDI HDI	< 0.5	10.0 - 10.4	500 - 1100	1	Excellent hardness. Good flexibility. Good yellowing resistance. Good compatibility with Nitrocellulose. Suitable for polishable varnishes and enamels for wood. Enamels with good colour retention for metal, plastics and other substrates.
<b>POLURENE OK.D AE</b>	60	Mixed Isocyanurate	Ethyl Acetate	TDI HDI	< 0.5	10.0 - 10.4	100 - 400	1	Excellent hardness. Good flexibility. Good yellowing resistance. Good compatibility with Nitrocellulose. Suitable for polishable varnishes and enamels for wood. Enamels with good colour retention for metal, plastics and other substrates. Mainly used for 2K PU adhesives and inks.
<b>POLURENE 2391</b>	70	Mixed Isocyanurate	Butyl Acetate	TDI IPDI	< 0.5	11.7 - 12.0	800 - 1400	2	Good hardness. Excellent elasticity. Good yellowing resistance. Excellent filling and gloss. Suitable for clear and pigmented high quality PU high gloss topcoats.
<b>POLURENE XP 0610</b>	60	Mixed Isocyanurate	Butyl Acetate	TDI HDI	< 0.5	10	600	1	Excellent hardness. Good flexibility. Good yellowing resistance. Optimum compatibility with aromatic solvent and Nitrocellulose, CAB and OH acrylic resins. Suitable for polishable varnishes and enamels for wood. Enamels with good colour retention for metal, plastics and other substrates.

NB: All specifications refer to the delivery form

## POLURENE - ALIPHATIC POLYISOCYANATES

Product	% NV	Type	Solvent	Type of isocyanate	% Monomer	% NCO	Vx mPa*s @ 23°C	Max Gardner colour	Characteristics & main application
<b>POLURENE T 70</b>	70	Aliphatic Polyisocyanate	Butyl Acetate	IPDI	< 0.5	11.8 - 12.2	800 - 1600	3	Used for 2K PU coatings with good yellowing and outdoor resistance. When diluted, it can be used in order to improve the performances of short and long oil drying resins.
<b>POLURENE T 70 AE</b>	70	Aliphatic Polyisocyanate	Ethyl Acetate	IPDI	< 0.5	11.0 - 13.0	200 - 600	3	Used for 2K PU coatings with good chemical resistance outdoor. When diluted it can be used in order to improve the performances of short and long oil drying resins. It can be applied in 2k laminating adhesives and inks.
<b>POLURENE M 75</b>	75	Aliphatic Polyisocyanate	Xylene MPA*	HDI	< 0.2	16.0 - 17.0	150 - 310	1	Excellent for non yellowing systems. Good flexibility. It can be used in combination with OH acrylic resins and saturated polyesters for 2K paints and enamels for metal, wood and plastics.
<b>POLURENE MT 100</b>	100	HDI Trymer	-	HDI	< 0.2	21.5 - 22.5	2000 - 3000	1	Excellent for non yellowing systems. Good flexibility. It is mainly used for high solid content 2K paints and enamels for metal, wood and plastics.
<b>POLURENE MT 90</b>	90	HDI Trymer	Butyl Acetate Solvent Naphta 100	HDI	< 0.2	19.0 - 21.0	400 - 700	1	Excellent for non yellowing systems. Good flexibility. It is mainly used for high solid content and low viscosity 2K paints and enamels for metal, wood and plastics.
<b>POLURENE MT 90 AB</b>	90	HDI Trymer	Butyl Acetate	HDI	< 0.2	19.0 - 21.0	300 - 700	1	Excellent for non yellowing systems. Good flexibility. It is mainly used for high solid content and low viscosity 2K paints and enamels for metal, wood and plastics.

\* Metoxypropylacetate

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