



Product data SUPRASEC® Product range



SUPRASEC® MDI and MDI-based prepolymers for the formulation of Adhesives, Coatings and Elastomers

In terms of their physical properties, ease of use and cost effectiveness, polyurethanes are the ideal polymeric material for adhesive, coating and elastomer applications. The versatility of polyurethanes provides formulators with a particularly wide choice when solving a range of problems - whether devising a new product or meeting a specific customer demand. The range of starting materials available from Huntsman Polyurethanes is designed to cover all possible formulation requirements. A selection of suitable 'SUPRASEC®' MDI-based prepolymers is outlined inside.

Our Offer: Dedicated Customer Service Tailor -Made Products Global Approach

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Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Polyurethanes containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent on the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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Enriching lives through innovation

Product Type		Product name	NCO, % (±0.5%)	Viscosity @ 25°C mPa.s	Average functionality	Formulation notes
High-functionality	Polymeric MDI					
products		SUPRASEC® 5025	31,0	210	2,7	Standard polymeric MDI grade typically used for one- and two-component systems.
		SUPRASEC® 2085 SUPRASEC® 2211	30,5 31,0	625 225	2,9 2,7	Polymeric MDI grade with higher-than-average functionality yielding early crosslinking for fast-cure systems. Reactivity modified polymeric MDI used in systems where a slower cure speed is needed.
		SUFINASEC® 2211	31,0	223	2,1	reactivity modified polyment with used in systems where a slower cure speed is needed.
Mid-functionality						
products		SUPRASEC® 2050	30,6	130	2,5	Product typically used in high performance elastomeric applications such as sports floor coatings.
		SUPRASEC® 2487	31,3	90	2,5	Product designed to be used as crosslinker for adhesives and coatings. Advantages: wide compatibility, good wetting, enhanced adhesion and excellent flow properties.
		SUPRASEC® 2495	31,3	133	2,5	Product designed to be used in the coatings area, provides enhanced adhesion and low-temperature stability
		SUPRASEC® 2496 SUPRASEC® 2030	31,3 28,6	90 175	2,5 2,3	Product designed to be used in the coatings area, provides enhanced adhesion, low-temperature stability and excellent flow properties. Product used where good adhesive properties are required. Gives a wide compatibility.
		SUPRASEC® 2651	32,2	30	2,3	Low viscosity, medium functionality product with good penetration and wetting properties.
		SUPRASEC® 2330	32,1	30	2,3	Medium high functionality and low viscosity product recommended for use in the manufacture of adhesives.
		SUPRASEC® 2015	27,4	160	2,2	Product with improved compatibility and enhanced adhesion.
		SUPRASEC® 2214	32,0	30	2,2	Low viscosity product giving good penetration and wetting.
Pure Products		SUPRASEC® 2647	32,6	25	2,2	Product giving low viscosity, good penetration and wetting. Advantages: low-temperature stability and wide compatibility with reactants.
rule Floudets		SUPRASEC® 1000	33,5	5*	2,0	Non-stabilized pure MDI.
		SUPRASEC® 1100	33,5	5*	2,0	Stabilized pure MDI used for the production of prepolymers for flexible packaging adhesives.
		SUPRASEC® 1306	33,5	5*	2,0	Product supplied as frozen solid in drums or in liquid form in bulk; Used in the production of adhesives, sealants and prepolymers.
		SUPRASEC® 1400	33,5	5* * at 50°C	2,0	Modified pure MDI used for the production of low NCO prepolymers.
				at 50 C		
Low-functionality		CUDDA CEC® 2004	20.0	40	2.0	
products		SUPRASEC® 2004 SUPRASEC® 2385	32,9 30,9	13 25	2,0 2,0	Reactivity and viscosity modified pure MDI with improved storage stability used in low reactive systems and prepolymers. Uretonimine-modified pure variant with enhanced wetting properties.
		SUPRASEC® 2386	30,3	40	2,0	Uretonimine-modified MDI with improved miscibility.
		SUPRASEC® 4102	29,7	25	2,0	Uretonimine modified pure MDI with enhanced miscibility and low temperature stability.
		SUPRASEC® 2020	29,5	40	2,1	Uretonimine-modified pure MDI with lower viscosity.
		SUPRASEC® 2388	29,5	35	2,1	Uretonimine-modified pure MDI with improved stability at low temperature.
Emulsifiable	Emulsifiable products					
products		SUPRASEC® 1042	29,9	275	2,7	Emulsifiable polymeric MDI used as crosslinker in latex-based systems and waterborne primers.
		SUPRASEC® 9584	24,1	45	2,7	Diphenylmethane diisocyanate (MDI) prepolymer, is a clear brownish liquid. Recommended for use in the manufacture of two component primers.
Prepolymers						
	Mid-functionality products	SUPRASEC® 2060	16,0	2750	2,5	Multi-purpose product with increased reactivity for use in one-component systems.
		SUPRASEC® 2234	16,0	2500	2,5	Multi-purpose product for use in one-component systems.
		SUPRASEC® 2237 SUPRASEC® 2416	22,7 24,0	1000 250	2,5 2,1	Product often used as crosslinker for adhesives and coatings for highly flexible compounds. Diphenylmethane diisocyanate (MDI) prepolymer, is a clear brownish liquid. This product, of low functionality and low viscosity, is ideally suited for use in fast cure one component systems as primer
		30FRA3EC® 2410	24,0	250	۷,۱	Diplietly internating disocyanate (wid) preporpries, is a clear brownish liquid. This product, or low functionality and low viscosity, is ideally suited for use in rast cure one component systems as printer
	Low functionality products	SUPRASEC® 1007	6,8	5500	2,1	Product used in a variety of one-component systems.
		SUPRASEC® 2008	10,2	1800	2,0	Product designed to have a small change in viscosity over a wide range of temperatures.
		SUPRASEC® 2144 SUPRASEC® 2244	15,3 15,3	1850 1850	2,1 2,1	Multi-purpose product for use in one-component long open time systems Multi-purpose product with increased reactivity and improved through cure and temperature resistance.
		SUPRASEC® 2445	16,0	800	2,0	Product similar to Suprasec 2444 but improved liquidity and yields in softer elastomers.
		SUPRASEC® 2982	16,0	2750	2,0	Product used for high performance elastomers with excellent dynamical properties.
		SUPRASEC® 2783	19,0	1000	2,0	Product used for high performance elastomers with excellent dimensional stability.
		SUPRASEC® 2944	15,3	2500	2,1	Multi-purpose product with very short open time and improved through cure and temperature resistance.
		SUPRASEC® 2980	19,0	1100	2,0	Low functional, high performance prepolymer with improved adhesion properties.
		SUPRASEC® 2444 SUPRASEC® 2733	20,2	950 300	2,0	Product used in the production of high quality elastomers: excellent resilience and fatigue properties, resistant to hydrolysis.
		SUPRASEC® 2733 SUPRASEC® 2021	19,0 23,2	975	2,0 2,0	Product used for HCE. Good compatibility with polyether and polyester polyols. Product used in cast polyurethanes with engineering requirements.
		SUPRASEC® 2029	24,5	500	2,1	Uretonimine-modified pure MDI of lower NCO with improved stability at low temperature.
		SUPRASEC® 2018	26,0	170	2,1	Product used in the production of high-quality cast elastomers. Advantage: excellent low-temperature stability.
		SUPRASEC® 2010	26,3	140	2,1	Product used in the production of high quality cast elastomers.
	Products for polyurea systems	SUPRASEC® 2054	15,0	775	2,0	Low-functional prepolymer for polyurea systems. Advantages : excellent tear strength and good E-modulus.
		SUPRASEC® 2067	19,3	610	2,2	Higher-functional prepolymer for hard polyurea systems.