

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. Selection of suitable SUPRASEC® MDI-based prepolymers is outlined inside.

Our offer:
Dedicated Customer Service
Tailor-made Products
Global Approach

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Product Type	Product Name	NCO % (± 0.5%)	Viscosity @ 25°C mPa.s	Average functionality	Formulation notes		
High functionality products	Polymeric MDI	SUPRASEC ® 2085	30.50	625	2.9	Polymeric MDI grade with higher-than-average functionality yielding early crosslinking for fast cure systems.	
		SUPRASEC ® 2211	31.00	225	2.7	Reactivity modified polymeric MDI used in systems where a slower cure speed is needed.	
		SUPRASEC ® 5025	31.00	210	2.7	Standard polymeric MDI grade, designed for use in one- and two-component systems.	
Mid functionality products		SUPRASEC ® 2015	27.40	160	2.2	Product with improved compatibility and enhanced adhesion.	
		SUPRASEC ® 2030	28.60	175	2.3	Product designed for use in applications where good adhesive properties are required, with a wide compatibility.	
		SUPRASEC ® 2050	30.60	130	2.5	Product designed for use in high performance elastomeric applications.	
		SUPRASEC ® 2214	32.00	30	2.2	Low viscosity product giving good penetration and wetting.	
		SUPRASEC ® 2330	32.10	30	2.3	Medium high functionality and low viscosity product recommended for use in the manufacture of adhesives.	
		SUPRASEC ® 2447	32.60	25	2.2	Product giving low viscosity, good penetration & wetting, excellent low temperature stability and wide compatibility with reactants.	
		SUPRASEC ® 2487	31.30	90	2.5	Product designed for use as crosslinker for adhesives and coatings, with good wetting, enhanced adhesion and excellent flow properties.	
		SUPRASEC ® 2496	31.30	90	2.5	Product designed for use in coatings, provides enhanced adhesion, low temperature stability and excellent flow properties.	
		SUPRASEC ® 2651	32.20	30	2.3	Low viscosity, medium functionality product with good penetration and wetting properties.	
Pure products (* at 50°C)		SUPRASEC ® 1306	33.50	5*	2.0	Product supplied ad frozen solid in drums or in liquid form in bulk. Used in the production of adhesives, sealants and prepolymers.	
Low functionality products		SUPRASEC ® 2020	29.50	40	2.1	Uretonimine-modified pure MDI with lower viscosity.	
		SUPRASEC ® 2385	30.90	25	2.0	Uretonimine-modified pure variant with enhanced wetting properties.	
		SUPRASEC ® 2386	30.20	40	2.0	Uretonimine-modified MDI with improved miscibility.	
		SUPRASEC ® 2388	29.50	35	2.1	Uretonimine-modified pure MDI with improved stability at low temperature.	
		SUPRASEC ® 4102	29.70	25	2.0	Uretonimine-modified pure MDI with enhanced miscibility and low temperature stability.	
Emulsifiable products		SUPRASEC ® 1042	29.90	275	2.7	Emulsifiable polymeric MDI used as crosslinker in latex-based systems and waterborne primers.	
		SUPRASEC ® 2405	29.30	33	2.1	Emusifiable MDI with low functionality and low viscosity used as crosslinker in latex-based systems and waterborne primers.	
		SUPRASEC ® 9584	24.10	45	2.7	Emusifiable MDI with low viscosity, recommended for use in the manufacture of two-component primers.	
Prepolymers	Mid functionality products	SUPRASEC ® 2026	21.40	500	2.5	Prepolymer for use in high performance two-component adhesive systems for sandwich panels production.	
		SUPRASEC ® 2060	16.00	2750	2.5	Multi-purpose product with increased reactivity for use in one-component systems.	
		SUPRASEC ® 2234	16.00	2500	2.5	Multi-purpose product for use in one-component systems.	
		SUPRASEC ® 2246	15.00	3400	2.2	Multi-purpose product for use in one-component long open time systems.	
		SUPRASEC ® 2451	12.00	390	2.4	Mid-functionality and low viscosity MDI, suited as one-component moisture cure primer and/or sealer, accommodating expansion and shrinkage changes.	
		SUPRASEC ® 2489	13.80	1500	2.2	Product designed for bonding of flexible substrates.	
		SUPRASEC ® 4130	14.90	2350	2.3	Multi-purpose product with increased reactivity for use in one-component systems.	
		SUPRASEC ® 4160	14.90	2350	2.3	Multi-purpose product for use in one-component systems with low reactivity.	
		Low functionality products	SUPRASEC ® 1007	6.80	5500	2.1	Product for use in a wide range of one-component systems.
			SUPRASEC ® 2008	10.20	1800	2.0	Product with small viscosity variation over a wide temperature range.
			SUPRASEC ® 2010	26.30	140	2.1	Product used in the production of high quality cast elastomers.
			SUPRASEC ® 2018	26.00	170	2.1	Product used in the production of high quality cast elastomers with excellent low temperature stability.
			SUPRASEC ® 2021	23.20	975	2.0	Product used in cast polyurethanes with excellent mechanical properties.
			SUPRASEC ® 2029	24.50	500	2.1	Uretonimine-modified pure MDI of lower NCO with improved stability at low temperature.
	SUPRASEC ® 2144		15.30	1850	2.1	Multi-purpose product for use in one-component long open time systems.	
	SUPRASEC ® 2202		7.90	6900	2.2	Hydrophilic product for use in a wide range of one-component systems.	
	SUPRASEC ® 2244		15.30	1850	2.1	Multi-purpose product with increased reactivity and improved through-cure and temperature resistance.	
	SUPRASEC ® 2413		24.00	250	2.1	Low functionality and low viscosity MDI, ideally suited for use in one-component moisture cured primers and/or sealers.	
	SUPRASEC ® 2416		24.00	250	2.1	Low functionality and low viscosity MDI, ideally suited for use in fast cure one-component moisture cured primers and/or sealers.	
	SUPRASEC ® 2433		19.00	330	2.0	Polyether prepolymer providing good compatibility with polyester polyols.	
	SUPRASEC ® 2444		20.20	950	2.0	Product used in the production of high quality elastomers that require excellent resilience, fatigue properties and hydrolysis resistance.	
	SUPRASEC ® 2445	16.00	800	2.0	Multi-purpose product with increased reactivity, improved through-cure and temperature resistance, with improved liquidity and yields in softer elastomers.		
	SUPRASEC ® 2733	19.00	300	2.0	Product designed for use in hot cast elastomers, with good polyether and polyester polyols compatibility.		
	SUPRASEC ® 2783	19.00	1000	2.0	Product designed for use in high performance elastomers with excellent dimensional stability.		
	SUPRASEC ® 2944	15.30	2500	2.1	Multi-purpose product with very short open time and improved through-cure and temperature resistance.		
	SUPRASEC ® 2980	19.00	1100	2.0	Low functional, high performance prepolymer with improved adhesion properties.		
	SUPRASEC ® 2982	16.00	2750	2.0	Product designed for use in high performance elastomers with excellent dynamic properties.		
Products for polyurea systems	SUPRASEC ® 2054	15.00	775	2.0	Low functional prepolymer for polyurea systems with excellent tear strength and good e-modulus.		
	SUPRASEC ® 2067	19.30	610	2.2	Higher functional prepolymer for hard polyurea systems.		
	SUPRASEC ® 2110	10.00	7500	2.1	Multi-purpose product with increased hydrophobicity and low temperature flexibility, suited as one-component moisture cure primer or adhesive.		
	SUPRASEC ® 2115	15.00	2500	2.1	Multi-purpose product with increased hydrophobicity suited for two-component coating and adhesive applications.		
	SUPRASEC ® 2119	19.00	1070	2.1	Multi-purpose product with increased hydrophobicity suited for two-component coating and adhesive applications.		
	SUPRASEC ® 2154	15.00	925	2.0	Prepolymer for polyurea with incorporated non-halogenated flame retardant performance.		
	SUPRASEC ® 2331	15.00	400	2.0	Low functional and low viscosity prepolymer for polyurea systems.		
	SUPRASEC ® 2954	13.20	1470	2.0	Low functional prepolymer for polyurea systems with excellent wetting properties.		



Enriching lives through innovation

Huntsman Polyurethanes is committed to working closely with its customers and can offer a fast and flexible response to your needs. We offer direct links to our laboratories with full technical backup. Commercial support and dedicated customer service is available throughout Europe, the Middle East, Asia-Pacific and the Americas.

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About Huntsman:

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