



VORASTAR HA 6185 Polyol
 VORASTAR HB 6568 Isocyanate

Description

VORASTAR* HA 6185 Polyol / VORASTAR HB 6568 Isocyanate is a two component polyurea hybrid spray elastomer system designed for industrial and truck-bed liner coatings. Due to the intrinsic characteristics of the polyurea components and the particular composition of the isocyanate component, the developing polymer system shows a high reactivity and as a consequence, a high level of resistance to temperature and humidity in application. The product cures rapidly and application thickness up to ½ inch can easily be achieved. The product color is natural.

Typical Component Properties

	Units	VORASTAR HA 6185 Polyol	VORASTAR HB 6568 Isocyanate	Test Method
Viscosity @ 75°F	cPs	710-1129	500-800	Brookfield
Specific Gravity @ 75°F	g/cc	1.04	1.16	ASTM D1475-98

Recommended Process Conditions

Keep containers sealed tightly to eliminate any moisture contamination. Do not introduce water into the liquid components. Use desiccant drier cartridges or blanket with nitrogen when in use. Polyol side must be agitated before use and before inserting transfer pumps. Refer to MSDS for additional handling and disposal requirements.

	Units	Limits
VORASTAR HA 6173 Polyol	pbv	1.00
VORASTAR HB 6568 Isocyanate	pbv	1.00
Equipment		Gusmer H20-35/H3500/H2000 ⁽¹⁾
Spray Gun		Gusmer GX-7 DI/Glasscraft Probler/Graco Fusion
Component Feed	Gal/min	3-7
Mixing module	inches	0.04-0.06
Pre-heater Temperature	°F(°C)	155-160 (68-71)
Whip Temperature	°F(°C)	160 (71)
Dispense pressure	psi	1800-2000

1. Other heated pressure building proportioning units also suitable.

Typical Reaction Characteristics

	Units	Result	Test Method
Gel time	s	6-8	Sprayed
Tack free time	s	10-15	Sprayed
Full service use	Hrs	24	

Handling and Storage

	Units	VORASTAR HA 6185 Polyol	VORASTAR HB 6568 Isocyanate
Storage temperature	°C	15-25	15-25
Storage stability / Shelf life ⁽¹⁾	months	6	6

1. Data referred to original sealed drums stored in a dry place at the recommended temperature.

Typical Polymer Properties

	Units	Values	Test Method
Hardness	Shore A/D	95/50	ASTM D2240
Density	g/cc	1.06	DIN 53479
Percent Solids	%	100 (0 g/l VOCs)	
Tensile	psi	2034	ASTM D412
Elongation	%	90	ASTM D412
Tear	pli	244	ASTM D624C
Taber Abrasion	mg/rev. loss	96.5/1000	ASTM D3389
Elcometer Adhesion	psi	>1100 >800	Sandblasted steel Concrete Glue failure Substrate failure
Impact Resistance	in-lb	176	Passed ASTM D 2794
Mandrel Bend	mm	2	Passed ASTM D 522

Safety Considerations

Material Safety Data (MSD) sheets are available from The Dow Chemical Company. MSD sheets are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. MSD sheets are updated regularly, therefore, please request and review the most current MSD sheet before handling or using any product. These are available from the nearest Dow sales office.

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