

Form No. 757-164-01-07/25

Technical Data Sheet

VORASTAR™ HA 6153 Additive VORASTAR™ HB 6042 Isocyanate

Description

VORASTARTM HA 6153 with VORASTARTM HB 6042 is a 2 component fast reacting polyurea system designed to protect concrete, steel, wood, and a variety of substrates against corrosion, erosion, impact, and aggressive chemicals associated with the infrastructure and industrial environments. This high performance tough elastomeric membrane can be applied at specified thickness's during a single application due to its speed of cure and being 100% solids. Its high tear strength and elongation properties enables this system to bridge substrate cracks and withstand temperature variation, dynamic forces. Designed to be applied through 1:1 volumetric spray equipment and to cure at ambient temperatures it can reduce down time and help increase productivity.

Typical uses: Protective Coatings for Manufacturing and Power plants, Tank coatings/linings, Bridge Deck waterproofing, Walkways and Balconies, Flooring for Industrial and manufacturing facilities, Landscaping and Marine applications.

Typical Component Properties

	Units	VORASTAR™ HA 6153 Additive	VORASTAR™ HB 6042 Isocyanate	Test Method
Appearance at 25°C		Yellow liquid	Yellow liquid	
Viscosity at 25°C	cps	350 – 650	1500 – 2500	ASTM D4287
Specific Gravity at 25°C	g/cm3	1.00	1.00	ASTM D1475
Flash Point	°C	>200	>200	DIN 52578

These are typical values and should not be construed as specifications.

Recommended Process Conditions

Units	Values
Pbv	1.00
Pbv	1.00
°C	70 – 85 (Additive – Isocyanate)
bar	150-180
	Pbv Pbv °C

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Typical Reaction Characteristics^(1, 2)

	Units	Hand mix	Test Method
Gel Time (100gms @ 25°C)	S	3-8	
Tack-free time	min	5	
Post cure time	hours	24	
Final hardness	days	2	

Values refer to tests conducted using a high-pressure machine processed according to "Recommended Process Conditions".

Handling and Storage

	Units	VORASTAR™ HA 6153 Additive	VORASTAR™ HB 6042 Isocyanate	
Recommended storage temperature	°C	15-25	15-25	
Storage stability / Shelf life (1)	months	12	12	

[.] Stored in the original sealed drums in a dry place at the recommended temperature

Typical Polymer Properties

	Units	Limits	Test Method
Shore Hardness	Shore D	62	DIN 53505
Tensile Strength	N/mm ²	32.2	DIN 53504
Elongation at Break	%	340	DIN 53504
Tear Resistance	N/mm	126	DIN 53515
Taber Abrasion	mm ³	80	DIN 53516
Density	g/cm ³	1	DIN 53420

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^{2.} These are typical values and should not be construed as specifications..

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Contact information:

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