



MAXGUARD® U-145

TECHNICAL DATA SHEET

Maxguard® U-145 is a two-component polyurea elastomer, low VOC, low emissions specifically developed to be versatile: it can be sprayed both at low and high pressure and temperature settings. This system is characterized by high-performance properties and it can be used in various coating application such as roofing application and non-coating applications like waterproofing, secondary containment, protective applications and sealing. It can be applied in a thickness of 1-5 mm in a single application.

The key benefits of this system grey colored system are fast cure, treated surface can return to service fast, or can be fast further processed Because of its fast reaction time, it can be applied on horizontal and vertical substrate. Maxguard U-145 has good adhesion performance to a variety of surfaces, relative moisture and temperature insensitivity and excellent physical properties.

PHYSICAL PROPERTIES		
Tensile Strength	26.2 Mpa	DIN 53504
Elongation	420%	DIN 53504
Shore D Hardness	43	DIN 53505
Tear Strength	73.6 N/mm	DIN 53515

LIQUID COMPONENT PROPERTIES*		
PROPERTY	U-145-A	MAXGUARD U-145 B
Color	Clear Brown	Grey
Viscosity 25°C	400 mPa.s	400 mPa.s
Specific Gravity 25°C	1.12	1.05
Shelf Life of unopened drum properly stored	6 months	6 months
Storage Temperature	20 – 25°C	20 – 25°C
Mixing Ratio (volume)	1:1	

*See SDS for more information.

REACTIVITY PROFILE	
Gel Time @ 25°C)	Tack Free Time @ 25°C
6 seconds	8 seconds

RECOMMENDED PROCESSING CONDITIONS*	
Initial Primary Heater Setpoint Temperature	>= 50°C
Initial Hose Heat Setpoint Temperature	>=50°C
Initial Processing Setpoint Pressure	>= 100bar
Substrate & Ambient Temperature	> - 5°C

*It is the sole responsibility of the applicator to process and apply Maxguard U-145 within specification.

General Requirements: Equipment must be capable of delivering the proper ratio (1:1 by volume) of isocyanate and resin at adequate temperatures and spray pressures. Substrate must be at least 5°C above dew point, with a maximum relative humidity of 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the product. This product must not be used when the continuous service temperature of the substrate or product is below -23°C or above 60°C.

Disclaimer: The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The product is combustible and must be protected in accordance with applicable codes. Protect from direct flame and spark contact, around hot work for example. The exclusive remedy for all proven claims is replacement of our materials.