

TECHNICAL DATA SHEET

Maxguard® U-280 is a two component polyurea elastomer system. Maxguard U-280 is based on amine-terminated resins and diphenylmethane diisocyanate (MDI) prepolymer. It can be used as a containment membrane with or without geotextile fabric. Maxguard U-280 can be sprayed on steel, concrete, foam, plastic, etc. Given its fast reactivity, this product can be applied to horizontal and vertical surfaces.

Common Uses: Walls, playground metal protection, exterior containment, floors with light traffic.

PHYSICAL PROPERTIES			
Tensile Strength	1500 - 2000 psi	10.3 - 13.8 Mpa	ASTM D 412 C
Elongation	1000 - 1100%		ASTM D 412 C
Shore A Hardness	75 - 85		ASTM D 2240
Tear Resistance	230 - 270 pli		ASTM D 624 C
Taber Abrasion CS 17 @ 1000 cycles (1000g)	1 mg		ASTM D 4060

LIQUID COMPONENT PROPERTIES*		
PROPERTY	U-280-A	MAXGUARD U-280 B
Color	Yellow	Transparent pale yellow, can be colored
Viscosity @ 77°F (25°C)	1100 - 1700 cps	600 - 1000 cps
Specific Gravity @ 77°F (25°C)	1.06 - 1.09	1.00 - 1.12
Shelf Life of unopened drum properly stored	6 months	6 months
Storage Temperature	59 - 86°F (15 - 30°C)	59 - 86°F (15 - 30°C)
Mixing Ratio (volume)	1:1	1:1

*See SDS for more information.

REACTIVITY PROFILE	
Gel Time @ 77°F (25°C)	
11 - 16 seconds	

RECOMMENDED PROCESSING CONDITIONS*		
Initial Primary Heater Setpoint Temperature	150°F	65°C
Initial Hose Heat Setpoint Temperature	150°F	65°C
Initial Processing Setpoint Pressure	2000 - 2500 psi	13790 - 17237 kPa
Substrate & Ambient Temperature	> 23°F	> -5°C

*It is the sole responsibility of the applicator to process and apply Maxguard U-280 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°F 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 -10°F (-23°C) or above 140°F (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.