

TECHNICAL DATA SHEET

Maxguard® U-190 system is a two-component polyurea elastomer, 100% solid, no VOC's, that is designed specifically to be sprayed at low pressures and temperatures. This system is based on amine-terminated resins and a diphenylmethane diisocyanate (MDI) prepolymer. It can be used as a containment membrane with or without geotextile fabric, or a protective layer over sprayed polyurethane foam, etc. Maxguard U-190 system can be sprayed on steel, concrete, foam, plastic, etc. Given its fast reactivity, the product can be applied to horizontal and vertical substrates.

Common Uses: Whenever the use of a low-pressure, low-temperature equipment is mandatory.

PHYSICAL PROPERTIES			
Tensile Strength	1200 - 1400 psi	8.3 - 9.7 Mpa	ASTM D 412 C
Elongation	350 - 450%		ASTM D 412 C
Shore A Hardness	90 - 95		ASTM D 2240
Tear Resistance	340 - 360 pli		ASTM D 624 C
Water Vapor Permeability	0.12 - 0.13 perm-inch		ASTM E 96

LIQUID COMPONENT PROPERTIES*		
PROPERTY	U-190-A	MAXGUARD U-190 B
Color	Yellow	Transparent pale yellow, can be colored
Viscosity @ 77°F (25°C)	300 - 600 cps	350 - 650 cps
Specific Gravity @ 77°F (25°C)	1.12 - 1.16	1.01 - 1.05
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)	
10 - 15 seconds	

RECOMMENDED PROCESSING CONDITIONS*		
Initial Primary Heater Setpoint Temperature	130°F	55°C
Initial Hose Heat Setpoint Temperature	130°F	55°C
Initial Processing Setpoint Pressure	1200 - 2000 psi	8274 - 13790 kPa
Substrate & Ambient Temperature	> 23°F	> -5°C

*It is the sole responsibility of the applicator to process and apply Maxguard U-190 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.