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WS-29™
HIGH STRENGTH SPRAY APPLIED
ENERGY ABSORBING POLYUREA ELASTOMER

Preliminary Data 02.02.11

Note: This product is formulated to process through the SPI LPG™ proportioner

WET PROPERTIES @ 77°F (25°C)	
Solids by Volume	100%
Solids by Weight	100%
Volatile Organic Compound	0 lbs/gal (0g/l)
Theoretical Coverage	100 sq. ft. @ 16 mils/gal
Weight per gallon (approx.)	8.65 lbs. (3.92 kg)
Mix Ratio by Weight	1 "A": 1"B"
Viscosity (cps) @ 77° F (25° C) (approx.)	A: 650 B: 600
Shelf Life Unopened Containers @ 60° – 90°F (16° - 32°C)	Six months

Note: This product must be stored at temperatures between 50°F – 90°F (10°C – 30°C).
 Minimum material/container temperature for spray application is 70°F (21°C).

PHYSICAL PROPERTIES @ 125 mils (1.67 mm)* (processed through a SPI LPG™ proportioner with cross fire gun)	
Tensile Strength ASTM D412	>1600 PSI (11.12 mpa)
Elongation ASTM D412	>250%
Hardness (Shore D) ASTM D2240-81	55 (0s) approx.
Service Temperature	-30°F - +250°F (-34°C - +121°C)

PHYSICAL PROPERTIES @ 125 mils (1.67 mm)* (processed through a SPI LPG™ proportioner with air assist gun)	
Tensile Strength ASTM D412	>2750 PSI (19.11 mpa)
Elongation ASTM D412	>275%
Hardness (Shore D) ASTM D2240-81	>52 (0s)
Service Temperature	-30°F - +250°F (-34°C - +121°C)

REACTIVITY CURING SCHEDULE @ 77°F (25°C)	
Gel	18 - 20 seconds
Tack Free	± 3 min
Post Cure**	24 hours
Recoat	12 hours.

Due to the many variables involved with blast and ballistic events, all SPI polymer solutions must be tested and validated prior to installation for the purpose of hardening structures, barriers, vehicles, etc.

*All dry film properties are approximate since processing parameters, ad- mixture types, and quantities will change physical properties of cured elastomer. All samples for above tests were force cured or aged.

**Complete polymerization to achieve final strength can take up to several weeks, depending on a variety of conditions.