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HM-VK™
ULTRA HIGH STRENGTH
HANDMIX POLYUREA ELASTOMER
 Preliminary Data 08.02.11

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": 4"B"
Viscosity (cps) @ 77° F (25° C) (approx.)	A: 35 B: 4000
Shelf Life Unopened Containers @ 75° – 85°F (23° - 29°C)	Six months

Note: It is recommended that the HM-VK™ "B" component be stored above 70°F (20°C)

DRY PROPERTIES @ 125 mils (1.67 mm)*	
Tensile Strength ASTM D412	6671 PSI (46.36 mpa) Average
Elongation ASTM D412	506% Average
Hardness (Shore A) ASTM D2240-81	95 (0s)
Hardness (Shore D) ASTM D2240-81	48 (0s)
Modulus 300% ASTM D412	1395 psi (9.7 mpa)
Service Temperature	-30°F - +250°F (-34°C - +121°C)

Minimum Material/container temperature for HM-VK application is 70°F (21°C).

SPI REACTIVITY CURING SCHEDULE @ 77°F (25°C)	
Gel	18 min. approx
Tack Free	20 min. approx.
Post Cure**	12 hours
Recoat	12 hours.

*All cured 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 days, depending on a variety of conditions.