

OR-7K

Description

OR7K is a two-component, spray-in-place flexible 100% solids polyurethane/polyurea system. This product provides a flexible but extremely tough monolithic membrane with excellent water and chemical resistance.

Proposed Uses

OR7K is a fast cure, textured surface, multi-purpose material designed for commercial and industrial applications such as roof coatings, automotive liners, spill containment, retention ponds, etc. It exhibits excellent adhesion to most materials and is suitable as a protective-abrasive-impact liner for cementitious, wood, and/or metal surfaces. The installation of these products may be made in incidental food contact locations and are certified under the FSIS procedures of the USDA. USDA-acceptable and NSF-approved to ANSI-NSF 61 Standard.

Typical Properties

Property	Test Method	"A"	"B"
Color	N/A	Lt. Yellow	Neutral
Specific Gravity	ASTM D-1638	1.15	1.08
Viscosity	Brookfield VLF	600 cps+100	1000 cps+100
Mixing Ratio	By Weight	53	47
Pounds per gallon	From Spec. Gravity	9.6	8.9

Processing Characteristics

Component Temperature at Spray Head:	
A Component	145°F - 160°F
B Component	145°F - 160°F
Minimum System Pressure	2200 psi
Gel Time	Instantaneous
Cure Time	24 Hours
Product Working Temperature Range	-20°F to 200°F

Physical Properties

Density (pcf)	(ASTM D-1622)	70
Shore A Hardness	(ASTM D-2240)	85 - 90
Tensile Strength	(ASTM D-2370)	2300 psi minimum
Abrasion Resistance (taber) (D-4060)		.03% per 1,000 cycles
Elongation %	(ASTM D-2370)	220% minimum
Tear Strength	(ASTM D-1004)	400 ppi minimum
Moisture Vapor Transmission, Perms (E96)		0.025 @ 30 MILS

Application Requirements

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Sprayed Equipment: Spray equipment (Such as Graco XP-1 or greater) must be designed to produce a minimum of 2500 psi with an output of 1.5 gallon per minute. The heating component of the equipment must be able to maintain a temperature at the gun of 150°F. The hose on the equipment must be heated and be rated a minimum of 3,000-psi burst pressure. The spray gun must also be rated at the pressures and throughputs required.

Product Application Parameters:

Property	Test Method	"A"	"B"
Specific Gravity	ASTM D-1638	1.15	1.08
Viscosity	Brookfield LVF	600 cps + 100	1000 cps + 100
Mixing Ratio	By Volume	1	1
Mixing Ratio	By Weight	53	47
Pounds per Gallon	From Spec. Gravity	9.6	8.9
Temp. at Spray Gun	N/A	145°F	145°F
Gel time	N/A	Instantaneous	Instantaneous
Total Cure	N/A	24 Hours	24 Hours
Product Working Temp.	N/A	-20°F to 200°F	-20°F to 200°F
Relative Humidity	N/A	Max 85%	Max 85%

Substrate Parameters: The substrate must be dry! A minimum of 5°F above the dew point is mandatory. The ambient relative humidity should not be above 85%. Pin holing may occur if the above parameters are not strictly followed. Applicator shall check initial climatic conditions. A small area shall be sprayed and check for proper application. Applicator may continue, if upon close inspection, the sprayed sample meets quality standards.

Coverage: The material theoretically will cover 80 square feet at 20 mil dry film thickness. Coverage of the substrate should include a waste factor based on conditions at the site and type of substrate to which the material is being applied.

Call Coating Holdings LTD for technical questions. 1-800-625-9577.

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Suppliers of High performance Foam/Coating and application Equipment

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