

OR 70SS

Product Description

- 100% solids Aromatic polyurea coating
- 2 component sprays applied
- Polyurea elastomer
- A tough, rapid set, high build product
- VOC compliant and moisture tolerant
- Free of pinholes & holidays
- No blisters or crater
- Cures without shrinkage

Primary Application

- Digesters and tanks
- Exterior pipe coating
- Secondary containment over concrete, fiberglass, dense foam, wood, w/geo-textile, plastic and steel
- Sewer wet wells, man hole covers to protect from hydrogen sulfide degradation

OR 70SS Polyurea Color

- 100% solids shall be tinted dark gray, black, brown, silver, blue, and green
- Custom colors available

Primer

- OR 811
- OR E41

Chemical Resistance

- Good Hydrolytic stability to 300° F
- Good resistance to inorganic bases, acids and hydrocarbon solvents
- Good resistance to oxygenated and chlorinated solvents

Storage Life

- One (1) year in an unopened container
- Temperature not less than 40° F (5° C)
- Temperature not above 100° F (38° C)

Product Advantages

- Seamless
- Long open application window
- Hi Temp Range
- No VOC
- Easy high film build
- Long coating life
- Self-extinguishing in 2 hours
- Vertical or horizontal application
- Cures at temps (-) 40° F/40° C
- Back in service sooner
- Wide product applications
- Reduced labor cost
- Abrasion resistant
- Tough film
- Can be water immersed

Application Equipment

1:1 high pressure plural component equipment, must maintain minimum Temp of 160° F and 2200 PSI during application.
Coverage: 80 Sq. Ft. per gallon @ 20 mils

Typical Physical Properties

	Test	Value
Tensile Strength	ASTM D-638	4500 psi
Elongation	ASTM D-628	250% Min
Hardness (shore D)	ASTM D-2240	70(±) shore D
Tear Resistance	ASTM D-624	200 lbs./in (±)

Ratio A/B		1:1 by volume
VOC	ASTM 3960	0
Flexibility	ASTM D-1737	Passed
Bond Strength	ASTM D-4541	
(Electrometer)	1500psi	
Water vapor permeability	ASTM E-96	0.02 perms
impact	ASTM G-14 steel pipe	1650lbs/in
Compressibility	ASTM D-695	7450(±100)
Part recovery (%)	ASTM D-638 (modified)	67% Min
Surface hardness	ASTM D-2240	70(±) Shore D
Abrasion Resistance	ASTM D-4060	6mg loss H-101000
gms, 1,000 cycles; 40-microns loss	2,800 circulating 35% SiC & 5% Fe slurry	
Oxygen permeability	Ni 1 at Kg/cm ² feed pressure	
Accelerated weather	2,000 hr. weather meter	slight color change
Salt spray	ASTM 117-73	No effect at 10,000 hr.
Water absorption	ASTM D-471	0.5%
Cathodic disbondment	ASTM G-8	1.5V, 3% NaCl 30 days, Radius of disbondment 6 MM
Cathodic disbondment	ASTM G-8	No effect after 6 wks.
In Seawater @ 1200mV		
Cathodic disbondment	ASTM G-8	No effect after 24 days W/2700 micron (106 mil) thick ZEBRON
Volume Resistivity	ASTM D-257	10.0 hm-cm
Temperature Resistance	Wet immersion @ 150° F (65°C) max	
continuous dry 300° F (93°C) max	Temperature resistance low temp (-) 129°C	
max Intermittent/dry 350° F (120°C) max		
Thermal conductivity	ASTM C-177	0.000723 cal/sec cm ²
C per cm @ 20° C		
Tack Free	20-30 Sec	
Cure time	7 Days @ 70°F	
Recoat time	up to 1 hour	
Decomposition Temperature of Cured dry film		700°F +/- 25°F

Sales and Customer Support 800-625-9577

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