



## Foam & Coating Systems, Inc.

# OR70SS

### Product Description

- 100% solids polyurea coating
- 2 component spray 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

### OR70SS Polyurea Color

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

### Primer

- ORPR811 Primer
- OR611 and ORDC primers are recommended

### 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
- Vertical or horizontal application
- Back in service sooner
- Wide product applications
- Reduced labor cost
- Abrasion resistant
- Tough film
- Can be water immersed in 2 hours
- Cures at temps (-) 40° F/40° C

### Application Equipment

1:1 high pressure plural component equipment, must maintain minimum Temp of 160° F and 2200 PSI during application.

**Coverage:** 40 sq ft per gallon @ 40 mils/or 1600 sq ft @ 1 mil.

### Application: High Impact

- parts bins, floors, pipes and pre-cast concrete

### 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 G-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-mic rons loss
Oxygen permeability	Ni 1 at Kg/cm <sup>2</sup> feed pressure	35% SiC & 5% Fe slurry
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 Intermittent/dry
resistance	low temp (-) 129°C max 350° F (120°C) max	
Thermal conductivity	ASTM C-177	0.000723 cal/sec cm <sup>2</sup> 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

### Warranty

The technical data and any other printed information furnished by Oak Ridge are true and accurate to the best of our knowledge. OR70SS conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling, whether done in a matter that is in accordance with the provided posted directions or not. Oak Ridge makes no warranty, expressed or implied of its products and shall not be liable for indirect or consequential damage in any event.1-16

### Manufacturer of High Performance Foam/Coatings & Application Equipment

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