



ORSSS
(Sanitary Sewer System)

Product Description

- 100% solids polyurea coating
- 2 component spray applied
- Hi-bred 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
- Class 1 rated elastomeric coating

Primary Application

- 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.

ORSSS Polyurea Color

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

Primer OR6111 and ORDC primers are recommended.

Chemical Resistance

- Good Hydrolytic stability to 300° F.
- Good resistance to inorganic bases, acids and hydrocarbon solvents
- Fair resistance to oxygenated and chlorinated solvents
- High chemical resistance-see chemical resistance sheet

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

Application Equipment

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

Application: High Impact

- part bins, hoppers, floors, pipes and
- pre-cast concrete.

Typical Physical Properties

Test	Value
Tensile Strength	ASTM D-638 4200 psi
Elongation	ASTM D-628 150%
Hardness (shore A)	ASTM D-2240 70(±) shore D
Tear Resistance	ASTM D-624 250 lbs/in (±)
Fire & Smoke	ASTM E-84 <20°F-400°
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
Class 1 elastomeric	ASTM E-84 Passed
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-10 1000 gms, 1,000 cycles; 40-mic rons 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 with 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 200° F (93°C)
Max Temperature resistance	low temp (-) 129°C Max 250° F (120°C) Max Intermittent/dry
Thermal conductivity	ASTM C-177 0.000723 cal/sec cm ² C Per Cm @ 20° C
Cure time	10-15 seconds (can be adjusted)
Recoat time	up to 12 hours

Warranty

The technical data and any other printed information furnished by Enhanced Flooring Products LLC (EFP LLC) are true and accurate to the best of our knowledge. ORSSS 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 EFP LLC makes no warranty, expressed or implied of its products and shall not be liable for indirect or consequential damage in any event.
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