Coating Holdings LTD

1137 W Fond du Lac St
Ripon WI 54971

ORSSS POLYUREA COATING

ORSSS Product Description
-100% solids
-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 fire retardant coating

Primary Application
-1:1 ratio
-Rapid application
-Cures rapidly
-Can be water immersed in 2 hours
-Cures at temps (-) 40°F/40°C
-Long pot life
-Vertical or horizontal application
-Exterior pipe coating

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

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
-Temperature not less than 50°F (10°C)
-Temperature no above 100°F (38°C)

Product Advantages
-Seamless
-Long open application window applications
-Hi Temp Range
-No VOC
-Easy high film build
-Tough film
-Long coating life
-Self Extinguishing
-Back in service sooner
-Wide product
-Reduced labor cost
-Abrasion resistant
-Fire resistant membrane

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

Primary Application
-Secondary containment over concrete, fiberglass, dense foam, wood w/geo-textile, plastic and steel.
-Sewer wet wells, manhole covers to protect from hydrogen sulfide degradation.

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

Warranty
The technical data and any other printed information furnished by CHL is 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. CHL makes no warranty, expressed or implied of its products and shall not be liable for indirect or consequential damage in any event.
04/08

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Typical Physical Properties

Test		Value
Tensile Strength	ASTM D-638	7450(±100)
Elongation	ASTM D-628	35% Min
Hardness (shore A)	ASTM D-2240	70(±) shore D
Tear Resistance	ASTM D-624	125 lbs/in (±)
Fire & Smoke	ASTM E-84	<20°F-400° smoke
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	4200 psi
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/cm² 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 NaCl 30 days, disbondment	ASTM G-8	1.5V, 3% Radius of 6 MM
Cathodic Disbondment after 6 wks in @ 1200mV	ASTM G-8	No effect Seawater
Cathodic Disbondment after 24 days with micron (106 mil) thick	ASTM G-8	No effect 2700
Volume Resistivity	ASTM D-257	10.0 hm-cm
Temperature Resistance immersion @ 150°F		Wet (65°C)
Max Continuous dry 200°F (93°C) Max		
Temperature resistance Intermittent/dry	low temp (-) 129°C Max	250°F (120°C) Max
Thermal conductivity deg C	ASTM C-177	0.000723 cal/sec cm² per Cm @ 20ºC
Cure time	10-15 seconds (can be adjusted)	
Recoat time	up to 12 hours	

ZEBRON