EPAND-592 Technical data sheet



Product Description

A two-component high-temperature coating system resistant to water, aqueous solution, and hydrocarbons up to a temperature of 248 F (120 C) is designed specifically to provide erosion-corrosion protection in acid-contaminated water/hydrocarbon system. For use original equipment manufacture or repair situation.

Application areas

) Condensate extraction pumps

) condensate return tanks

) evaporators Heat exchanger barrels

oil/gas and oil/water separators

autoclaves Scrubber units

) calorifiers

Typical Properties Property	part A	part B	mixed system
Appearance	paste	liquid	liquid
Color	dark gray	Green	gray
Density (g/cm3)	2.1	1	2.3
Pot life at 25°C, 100 g, min			30min

Processing

Mix ratio Product by weight

Part A resin 100

Part B hardener 8





Coverage rates

Recommended number of coat	2
Target thickness 1 st coat	18 mils (450 microns)
Target thickness 2 nd coat	18 mils (450 microns)
Minimum total DFT	24 mil (600 microns)
Maximum total DFT	Only limited by sag resistance
Theoretical coverage rate 1 coat	10.4 sq.ft (0.97 m2)/kg
Theoretical coverage rate 2 coat	10.4 sq.ft (0.97 m2)/kg
Theoretical coverage rate to	7.9 sq.ft (0.73 m2)/kg
achieve minimum recommended	
system thickness	

Completion of the molecular reaction

Ambient temperatur	Time until inspection	Time until full service	Time until post-cure (if required)	
е			dry	wet
68 F/ 20 C	12 hours	96 hours	12 hours	12 hours
86 F/ 30 C	5 hours	18 hours	12 hours	12 hours
104 F/ 40 C	3 hours	10 hours	12 hours	12 hours





Typical Physical Properties

Property	value	test method
Tensile shear		
Mild steel	2300 psi (16 mpa)	ASTM D1002
Pull of adhesion	2450 psi (17 mpa)	ASTM D4541
Abrasion cs-17 wheels	32.5 (mg/cycle)	ASTM D4060
Compressive strength	14790 psi (102 mpa	ASTM D695
Tensile strength	4790 psi (33 mpa)	ASTM D638
Flexural strength	6960 psi (48 mpa)	ASTM D790
Hardness		
Shore D	84	ASTM D2240
Barcol hardness	38	ASTM D2583
Heat resistanc	120	ASTM D648
Impact resist	25 j/m	ASTM D256

chemical properties

Type of chemical	Product resistance	Type of chemical	Product resistance
engine oil	Excellent	30% sodium hydroxide	Excellent
50% sulfuric acid	Excellent	50%Calcium hydroxide	Excellent
30% sulfuric acid	Excellent	20%Potassium hydroxide	Excellent
37% hydrochloric acid	Excellent	20% sodium hydroxide	Excellent
20% citric acid	Excellent	30% sodium hydroxide	Excellent
Lactic acid 10%	Excellent	Petrol	Excellent
Sodium hydroxide 10%	Excellent	Toluene	Excellent
Calcium hydroxide 50%	Excellent	Crude oil	Excellent

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