Chesterton MRS S4+ Metal Rebuilding System

Category : Ceramic

Material Notes:

An advanced polymer composite formulated to protect equipment from extreme chemical attack and corrosion. It is typically applied by spray, roller or brush at a nominal thickness of 375 microns (15 mils) per coat in a 2 coat system. Non-shrinking, 100% solids. MRS S4+ is an advanced multi-functional composite lining system formulated for ambient and elevated temperature service. It is designed to be spray applied but may also be applied by roller or brush. MRS S4+ yields excellent barrier properties for long-term corrosion and chemical resistance in immersion exposure when used in a multi-coat application. Cured MRS S4+ provides a high gloss surface with adhesion and corrosion protection. Benefits:Outlasts conventional paints and coatings100% solids, no shrinkage on cureOutstanding adhesion insures reliable performance against under film corrosionAble to be high voltage spark tested for pinhole free filmsExceptional permeation resistance for long term corrosion protectionOutstanding resistance to concentrated acids.Suggested Uses:Chemical Storage TanksExhaust Gas DuctworkHeat ExchangersTank LiningsChimneys and StacksFans and HousingsChemical PipingInformation provided by Chesterton

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chesterton-MRS-S4-Metal-Rebuilding-System.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ASTM D2240
Tensile Strength at Break	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Flexural Strength	27.6 MPa	4000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Adhesive Bond Strength	>= 13.8 MPa	>= 2000 psi	Tensile; ASTM D4541

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	60.0 °C	140 °F	Ambient Cure, Wet Service
	95.0 °C	203 °F	Post Cure, Wet Service
	150 °C	302 °F	Ambient Cure, Dry Service

Processing Properties	Metric	English	Comments
Cure Time	300 min	5.00 hour	Tack Free

Processing Properties	Metric @Temperature 32.0 °C	English @Temperature 89.6 °F	Comments
	480 min @Temperature 25.0 °C	8.00 hour @Temperature 77.0 °F	Tack Free
	600 min @Temperature 16.0 °C	10.0 hour @Temperature 60.8 °F	Tack Free
	780 min @Temperature 32.0 °C	13.0 hour @Temperature 89.6 °F	Light Load
	900 min @Temperature 32.0 °C	15.0 hour @Temperature 89.6 °F	Overcoat End
	1080 min @Temperature 25.0 °C	18.0 hour @Temperature 77.0 °F	Light Load
	1260 min @Temperature 25.0 °C	21.0 hour @Temperature 77.0 °F	Overcoat End
	1440 min @Temperature 16.0 °C	24.0 hour @Temperature 60.8 °F	Light Load
	1680 min @Temperature 16.0 °C	28.0 hour @Temperature 60.8 °F	Overcoat End
	2280 min @Temperature 32.0 °C	38.0 hour @Temperature 89.6 °F	Full Load
	2640 min @Temperature 25.0 °C	44.0 hour @Temperature 77.0 °F	Full Load
	3120 min @Temperature 16.0 °C	52.0 hour @Temperature 60.8 °F	Full Load
	12000 min @Temperature 32.0 °C	200 hour @Temperature 89.6 °F	Full Chemical
	15000 min @Temperature 25.0 °C	250 hour @Temperature 77.0 °F	Full Chemical
	18000 min @Temperature 16.0 °C	300 hour @Temperature 60.8 °F	Full Chemical

Descriptive Properties	Value	Comments
Color		

Descriptive Properties	Value	Comments
	Gray	
	Red	

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