

Chesterton MRS SD4i Metal Rebuilding System

Category : Ceramic

Material Notes:

An advanced ceramic composite for resurfacing and protection of metal surfaces in immersion service. It is normally applied in a thickness range of 250-370 microns (10 – 15 mils) per coat. Non-shrinking, 100% solids. MRS SD4i formulated for the resurfacing of metal components subjected to extreme corrosive or severe fluid flow conditions. MRS SD4i is a low viscosity composite that is designed to be spray applied but may also be applied by roller or brush. This product is designed as a two coat system to provide extended life for plant equipment. Cured MRS SD4i provides a high gloss ceramic surface with resistance to erosion-corrosion and permeation. Benefits: High loading of ceramic reinforcements extends equipment services life against wear. Exceptional resistance to blistering and chemical attack during long term immersion conditions High gloss finish reduces drag, improves pump efficiency on worn components Tough resin structure resists thermal-mechanical shock Outstanding adhesion insures reliable performance against underfilm corrosion Convenient 2 - 1 volumetric mix ratio and verification of mix by color change. Suggested Uses: Chemical Storage Tanks Exhaust Gas Ductwork Heat Exchangers Tank Linings Chimneys and Stacks Fans and Housings Chemical Piping Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-MRS-SD4i-Metal-Rebuilding-System.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength at Break	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Flexural Strength	62.7 MPa	9100 psi	ASTM D790
Flexural Modulus	6.07 GPa	880 ksi	ASTM D790
Compressive Strength	90.3 MPa	13100 psi	ASTM D695
Adhesive Bond Strength	>= 13.8 MPa	>= 2000 psi	Tensile; ASTM D4541
Taber Abrasion, mg/1000 Cycles	26 @Load 1.00 kg	26 @Load 2.20 lb	H-18, loss; ASTM D4060

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	65.0 °C	149 °F	Wet
	120 °C	248 °F	Dry

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	240 min	4.00 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	300 min	5.00 hour	Light Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	360 min	6.00 hour	Tack Free
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	600 min	10.0 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	600 min	10.0 hour	Overcoat End
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	840 min	14.0 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1080 min	18.0 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1200 min	20.0 hour	Overcoat End
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 min	24.0 hour	Light Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1440 min	24.0 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 min	24.0 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	1800 min	30.0 hour	Overcoat End
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	1800 min	30.0 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2400 min	40.0 hour	Overcoat End
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Processing Properties	Metric 2880 min	English 48.0 hour	Comments
	@Temperature 16.0 °C	@Temperature 60.8 °F	Full Load
	2880 min	48.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	3600 min	60.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	5760 min	96.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	7200 min	120 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Blue	
	Gray	

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