

Chesterton MRS S2 Metal Rebuilding System

Category : Ceramic

Material Notes:

An advanced ceramic composite for the resurfacing and protection of all metal surfaces. It is normally applied at a thickness of 250 microns (10 mils) per coat. Non-shrinking, 100% solids. MRS S2 is formulate for the resurfacing of metal components subjected to extreme corrosive to severe fluid flow conditions. MRS S2 is a low viscosity composite that is designed to be spray applied but may also be applied by roller or brush. This product is formulated as a two coat system to provide extended wear life for plant equipment. Cured MRS S2 provides a high gloss ceramic surface with resistance to erosion-corrosion. Benefits:High gloss finish reduces drag, improves pump efficiency on worn componentsTough resin structure resists thermal-mechanical shockOutstanding adhesion insures reliable performance against under film corrosion.Labor and downtime are reduced due to ease of application and rapid curingConvenient 2-1 volumetric mix ratio and verification of mix by color changePerforms well under fluctuating chemical environmentsSuggested Uses:Fans & HousingsHeat ExchangersHoppersTank LiningsValve AssembliesWaterboxesCooling Water SystemsPump ComponentsScrubber SystemsPipeline CoatingsInformation provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-MRS-S2-Metal-Rebuilding-System.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength at Break	46.2 MPa	6700 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	5.45 GPa	790 ksi	ASTM D790
Compressive Strength	64.8 MPa	9400 psi	ASTM D695
Adhesive Bond Strength	14.5 MPa	2100 psi	Lap Shear; ASTM D1002
Taber Abrasion, mg/1000 Cycles	31 @Load 1.00 kg	31 @Load 2.20 lb	H-18 (loss); ASTM D4060
Abrasion	2.4	2.4	[%]Weight Loss; Federal Test Method Spec. 6193 Modified

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	Wet
			Dry

Thermal Properties	175 °C Metric	347 °F English	Comments
Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	120 min	2.00 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	180 min	3.00 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		
2400 min	40.0 hour		

Processing Properties	Metric @ Temperature 10.0 °C	English @ Temperature 50.0 °F	Overcoat End Comments
	2880 min	48.0 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	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	Gray	
	Green	

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