

Chesterton MRS 5 Metal Rebuilding System

Category : Ceramic

Material Notes:

MRS 5 is an advanced composite formulated for emergency repair and patching of metal components subject to light abrasive and corrosive conditions. It can be used to seal leaks and patch holes as well as rebuild worn surfaces quickly, returning the damaged component back to service faster than conventional welding. MRS 5 is designed to cure underwater. It is normally applied at a thickness of 3 mm (1/8") or more. MRS 5 is 100% solids, non-shrinking. Benefits: Exceptional resistance to permeation in water immersion Excellent leak repair compound due to high build characteristics in single coat application with rapid cure Cures underwater Tough resin structure resists thermal-mechanical shock Outstanding adhesion insures reliable performance Labor and downtime are reduced due to ease of application and rapid curing Convenient 4 - 1 mix ratio and verification of mix by color change Cures at temperatures as low as 4°C (40°F) Suggested Uses: Condensers Cooling Water Pumps Flange Faces Pump Volutes Valve Bodies Pneumatic Transport Lines Pipe Elbows Pitted Pipes Heat Exchangers Pitted Tanks and Vessels Information provided by Chesterton

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chesterton-MRS-5-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	90	90	ASTM D2240
Tensile Strength at Break	17.8 MPa	2580 psi	ASTM D638
Flexural Strength	26.9 MPa	3900 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Compressive Strength	62.1 MPa	9000 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	66.0 °C	151 °F	Wet
	93.0 °C	199 °F	Dry

Processing Properties	Metric	English	Comments
Cure Time	7.002 min	0.1167 hour	Tack Free
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	10.0 min	0.167 hour	Tack Free
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	15.0 min Metric	0.250 hour English	Comments
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	19.8 min	0.330 hour	Tack Free
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	19.8 min	0.330 hour	Light Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	25.00 min	0.4167 hour	Full Load
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	30.0 min	0.500 hour	Tack Free
	@Temperature 4.00 °C	@Temperature 39.2 °F	
	35.0 min	0.583 hour	Light Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	45.0 min	0.750 hour	Full Load
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	49.8 min	0.830 hour	Light Load
	@Temperature 4.00 °C	@Temperature 39.2 °F	
	60.0 min	1.00 hour	Full Load
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	60.0 min	1.00 hour	Full Chemical
	@Temperature 32.0 °C	@Temperature 89.6 °F	
	75.0 min	1.25 hour	Full Load
	@Temperature 4.00 °C	@Temperature 39.2 °F	
	120 min	2.00 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	180 min	3.00 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	480 min	8.00 hour	Full Chemical
	@Temperature 4.00 °C	@Temperature 39.2 °F	

Descriptive Properties	Value	Comments
Color	Medium-Gray	

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