Chesterton ARC 988 Composite

Category : Other Engineering Material , Polymer

Material Notes:

Description: A high performance, quartz reinforced composite designed to resurface and restore concrete surfaces, to protect new concrete, and to repair concrete damaged by severe chemical and physical abuse. ARC 988 provides protection against chemical attack from highly aggressive substances including concentrated acids, alkalies and a wide variety of organic solvents. It is a trowelable overlayment which can be used at a thickness as low as 6 mm (1/4"). Its sag resistance makes it ideal for both vertical and horizontal applications. ARC 988 closes easily with a trowel, sealing the surface to prevent chemical attack on the substrate by permeation. The product produces a dense, fine textured surface. Non-shrinking 100% solids. Benefits:Protects concrete and provides chemical containment of concentrated acids such as sulfuric acid up to 98%Fine textured sealed surface produces a tough, durable, chemical resistant, low maintenance overlaymentCompatible thermal coefficient of expansion provides long-term resistance to disbondment.Moisture insensitive primer provides outstanding adhesion to damp concrete, a unique feature for concrete overlaymentsUser friendly consistency makes installation and finishing fast and easyThe reinforcement is engineered to minimize air entrapment and to improve mixingARC 988 is stronger than standard concrete, and its tough resin structure resists mechanical impact.Applications: ARC 988 is generally used to repair and upgrade concrete surfaces or used as a replacement for acid resistant tiles , phenolics, furans, polyesters, sulfonated concretes and other overlayments. It is formulated to be thermally compatible with concrete. ARC 988 has the unusual ability to bond to damp concrete. ARC 988 is chosen over other ARC Composites for Concrete for its superior chemical resistance. Suggested Uses:Battery RoomsPickling & Plating LinesBleaching AreasSumps, Trenches & PitsChemical ContainmentsPump & Equipment BasesConcentrated Acid AreasWaste Water TreatmentInformation provided by Chesterton

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chesterton-ARC-988-Composite.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in³	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM C370
Modulus of Elasticity	12.4 GPa	1800 ksi	ASTM C580
Flexural Strength	37.9 MPa	5500 psi	ASTM C580
Compressive Strength	97.9 MPa	14200 psi	ASTM C579
Adhesive Bond Strength	>= 2.76 MPa	>= 400 psi	Excellent - 100% Concrete
Abrasion	<= 136	<= 136	[mg], Tabor, H-18/250gm wt/500 cycles

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 µm/m-°C	12.0 µin/in-°F	ASTM C531

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	66.0 °C	151 °F	(Water Immersion) Continuous
	93.0 °C	199 °F	(Water Immersion) Intermittent

Processing Properties	Metric	English	Comments
Cure Time	90.0 min @Temperature 32.0 °C	1.50 hour @Temperature 89.6 °F	Foot Traffic
	120 min @Temperature 25.0 °C	2.00 hour @Temperature 77.0 °F	Foot Traffic
	180 min @Temperature 32.0 °C	3.00 hour @Temperature 89.6 °F	Light Load
	240 min @Temperature 25.0 °C	4.00 hour @Temperature 77.0 °F	Light Load
	300 min @Temperature 16.0 °C	5.00 hour @Temperature 60.8 °F	Foot Traffic
	480 min @Temperature 16.0 °C	8.00 hour @Temperature 60.8 °F	Light Load
	480 min @Temperature 32.0 °C	8.00 hour @Temperature 89.6 °F	Full Load
	780 min @Temperature 25.0 °C	13.0 hour @Temperature 77.0 °F	Full Load
	2040 min @Temperature 16.0 °C	34.0 hour @Temperature 60.8 °F	Full Load
	7200 min @Temperature 32.0 °C	120 hour @Temperature 89.6 °F	Full Chemical
	17300 min @Temperature 25.0 °C	288 hour @Temperature 77.0 °F	Full Chemical
	20200 min @Temperature 16.0 °C	336 hour @Temperature 60.8 °F	Full Chemical

Descriptive Properties	Value	Comments
Color	Gray	
	Red	

Descriptive Properties	Value	Comments
Thermal Compatibility to Concrete	Passes	ASMT C884

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