Chesterton ARC 791 Composite

Category : Other Engineering Material , Polymer

Material Notes:

Description: A quartz reinforced composite designed to resurface and restore concrete surfaces, to protect new concrete, and to repair concrete damaged by chemical and physical abuse. ARC 791 has excellent resistance to a broad spectrum of chemicals that are destructive to concrete. ARC 791 is a trowelable overlayment, which can be used at thickness as low as 6 mm (1/4"). ARC 791 is user friendly and will close easily to prevent chemical attack of the substrate by permeation. ARC 791 produces a dense textured surface. Non-shrinking, no solvents, 100% solids. Benefits:Fine textured, sealed surface produces a tough, durable, chemical resistant, low maintenance overlaymentCompatible thermal coefficient of expansion provides long-term resistance to disbondmentMoisture insensitive primer provides outstanding adhesion to damp concrete, a unique feature for concrete overlaymentsUser friendly consistency makes installation and finishing fast and easy.The reinforcement is engineered to minimize air entrapment and to improve mixingARC 791 is stronger than standard concrete and its tough resin structure resists mechanical impact.Applications: ARC 791 is generally used to repair and upgrade concrete surfaces or used as a replacement for acid resistant tiles, epoxy mortars, fiberglass, and other overlayments. It is formulated to be compatible with concrete. The ARC 791 has the unusual ability to bond to damp surfaces. Suggested Uses:Acid and Alkali Spill AreasBottling LinesEqupiment BeddingPump Bases/GroutingWaste Water TreatmentConcrete Tanks/SumpsFood Processing PlantsTrenches/DrainsStructural Support ColumnsInformation provided by Chesterton

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chesterton-ARC-791-Composite.php

Physical Properties	Metric	English	Comments
Density	1.88 g/cc	0.0679 lb/in³	Cured

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	19.7 MPa	2850 psi	ASTM C307
Modulus of Elasticity	12.9 GPa	1870 ksi	ASTM C580
Flexural Strength	37.9 MPa	5500 psi	ASTM C580
Compressive Strength	64.3 MPa	9320 psi	ASTM C579
Adhesive Bond Strength	>= 2.76 MPa	>= 400 psi	Excellent - 100% Concrete
Abrasion	<= 148	<= 148	[mg], Tabor, H-18/250gm wt/500 cycles; ASTM D4060

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C	15.0 µin/in-°F	ASTM C531
Maximum Service Temperature, Air	66.0 °C	151 °F	Continuous (Water Immersion)
	93.0 °C	199 °F	Intermittent (Water Immersion)

Processing Properties	Metric	English	Comments
Cure Time	270 min @Temperature 32.0 °C	4.50 hour @Temperature 89.6 °F	Foot Traffic
	360 min @Temperature 25.0 °C	6.00 hour @Temperature 77.0 °F	Foot Traffic
	510 min @Temperature 32.0 °C	8.50 hour @Temperature 89.6 °F	Light Load
	540 min @Temperature 16.0 °C	9.00 hour @Temperature 60.8 °F	Foot Traffic
	660 min @Temperature 25.0 °C	11.0 hour @Temperature 77.0 °F	Light Load
	960 min @Temperature 10.0 °C	16.0 hour @Temperature 50.0 °F	Foot Traffic
	1140 min @Temperature 16.0 °C	19.0 hour @Temperature 60.8 °F	Light Load
	1140 min @Temperature 32.0 °C	19.0 hour @Temperature 89.6 °F	Full Load
	1440 min @Temperature 10.0 °C	24.0 hour @Temperature 50.0 °F	Light Load
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	Full Load
	2520 min @Temperature 16.0 °C	42.0 hour @Temperature 60.8 °F	Full Load
	4320 min @Temperature 10.0 °C	72.0 hour @Temperature 50.0 °F	Full Load
	7200 min @Temperature 32.0 °C	120 hour @Temperature 89.6 °F	Full Chemical
	10100 min @Temperature 25.0 °C	168 hour @Temperature 77.0 °F	Full Chemical
	18700 min @Temperature 16.0 °C	312 hour @Temperature 60.8 °F	Full Chemical

Processing Properties	Metric	English	Comments
	@Temperature 10.0 °C	@Temperature 50.0 °F	Full Chemical

Descriptive Properties	Value	Comments
Thermal Compatibility to Concrete	Passes	ATM C884

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