

Protective Coating PC-Concrete™ Epoxy Concrete Anchoring and Repair System

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

PC Concrete™ epoxy gel is an anchoring and concrete repair product. PC Concrete™ is formulated for anchoring threaded rods, bolts, rebar dowels and smooth dowels into concrete, grout filled block, and unreinforced masonry. It has exceptional strength, maximum field reliability, along with a high heat deflection temperature of 134°F. PC Concrete™ is excellent for filling and repair cracks in concrete, performs better than caulks and hydraulic cement, will not come loose from any cleaned concrete surface, and holds during expansion and contraction of concrete. PC Concrete™ is a two component (1:1 ratio), 100% solids, high modulus, and structural epoxy gel. It is a solvent free, no odor, high strength, moisture-insensitive epoxy. In addition, PC Concrete™ has a long working time (20 minutes at 75°F.), while providing a bolt down/paint time in as little as 4 hours. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Protective-Coating-PC-Concrete-Epoxy-Concrete-Anchoring-and-Repair-System.php

Physical Properties	Metric	English	Comments
Water Absorption	0.40 %	0.40 %	
	@Time 86400 sec	@Time 24.0 hour	
Storage Temperature	<= 35.0 °C	<= 95.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	46.8 MPa	6790 psi	7 Day Cure; ASTM D695
Elongation at Break	1.9 %	1.9 %	7 Day Cure; ASTM D638
Compressive Yield Strength	69.0 MPa	10000 psi	7 Day Cure; ASTM D695
Compressive Modulus	1.319 GPa	191.3 ksi	7 Day Cure; ASTM D695
Adhesive Bond Strength	7.50 MPa	1090 psi	2 Day Cure; ASTM C882
	11.3 MPa	1640 psi	14 Day Cure; ASTM C882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	56.7 °C	134 °F	Heat Deflection; ASTM D648

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Pot Life	20 min	20 min	Working Time
Shelf Life	24.0 Month	24.0 Month	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Concrete Gray	Mixed
		Dark Gray	Component B
		White	Component A
Consistency		Non-Sagging Paste	ASTM C881

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