

Abatron ROCKWELD 55-27 A/B Structural Adhesive Putty; Epoxy

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

Material Notes:

ROCKWELD 55-27 is a 2-component epoxy system with low density, high-strength, and no shrinkage. It is a structural adhesive putty for sculpturing, repairs and restoration of stone, concrete and masonry, terracotta, and ceramics. This clay-like putty can be used to build up, model, patch, or replace shapes or parts of any structural or decorative element. Statues, architectural decorations, ornaments and mosaics can be repaired and restored using ROCKWELD. Broken stairs, railings, cracked and splitting concrete patios, floors, and walls are only a few examples of ROCKWELD applications. Tenacious adhesion to metal and wood also allows the repair of items made of different materials. The clay-like putty hardens without shrinking. It can be built up several inches thick. Thicker layers can generate too much heat that may impair final properties of the material. The new material adheres permanently to the old one. ROCKWELD can be shaped by hand because of its modeling clay consistency. It does not slump or sag when being applied to vertical surfaces. After hardening this material can be sanded by hand using coarse sandpaper (100 grit or less) or any mechanical tools such as circular or belt sanders. Tools like knives or files are not recommended because of the high abrasiveness of ROCKWELD. ROCKWELD can be primed and coated using any solvent or waterborne paint. Slight sanding is recommended, in some cases, as a surface preparation. To match the color of the object to be repaired, any dry pigment or pigment dispersion compatible with epoxy systems can be admixed to ROCKWELD. It can be blended with pebble stone, gravel, or concrete particles. It can be reinforced with inserts, rods, wires, and other reinforcing elements. ROCKWELD is chemically resistant and unaffected by atmospheric conditions and soft and salt water. ROCKWELD bonds to wet as well as dry surfaces.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-ROCKWELD-55-27-AB-Structural-Adhesive-Putty-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	
Volatiles	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength at Break	15.9 MPa	2300 psi	
Elongation at Break	2.8 %	2.8 %	
Modulus of Elasticity	0.565 GPa	82.0 ksi	
Flexural Strength	27.6 MPa	4000 psi	
Compressive Strength	50.3 MPa	7300 psi	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 93.0 -	@Temperature 199 -	

Processing Properties	105 °C Metric	221 °F English	Comments
	10080 min	168.0 hour	(7 Days)
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Pot Life	50 min	50 min	100 g
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	
Hardening Time (min)	120-240	at room temperature
Induction Period (min)	>= 5	

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