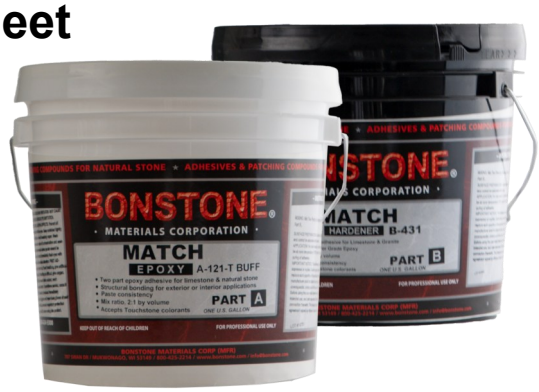
Bonstone® Match™ Technical Data Sheet



Product Description

A two-part, structural, high-performance epoxy.

Product Features

- Will not stain or wet out stone
- Can adhere to porous stone

Applications

- Dutchman repairs
- Limestone fabrication
- Structural bonding

Specifications

Product Type:	Epoxy
Viscosity:	Flowing
Mix Ratio:	2:1
Set Time:	2-4 Hours
Cure Time:	24 Hours
Pot Life:	20 Minutes
Application Conditions:	Interior, Exterior; Vertical, Horizontal
Recommended Application Temp:	75°F (24°C)
Coverage:	Per Gallon: 50mils (1/16”)30ft^2 or 231cu. inches
Available Colors:	Buff, Gray
Sizes:	Quart (946ml), Gallon (3,785ml), 5 Gallon Pail (18,927ml)
Other:	

Surface Preparation & Use

Use gloves, wear eye protection, and avoid skin contact. When grinding cured joints, wear a dust mask. Substrate to be bonded must be completely dry and dust free. Mix and apply the entire kit at one time. Avoid stressing joint before complete cure of epoxy. Mask areas which must be kept free of epoxy. Clean uncured epoxy from tools with toluol (toluene) or xylol (xylene). Use caution, these solvents are flammable. Ensure local ventilation. Remove cured epoxy mechanically.

Mixing Instructions

All materials should be at or above 50°F (10°C). Combine the two ingredients at the following weight ratio: two parts Match Part A to one Part B. Mix thoroughly, ingredients must be blended homogeneously for proper cure. The double mix method is used to completely and uniformly mix an epoxy product. The two components are mixed in one container, transferred to another, and remixed. This allows the contractor to scrape the final mixing container extremely clean without the possibility of using unmixed product.

Temperature Dependency

The adhesive, substrate, aggregate, and environment's temperature will affect the working properties of the material. Lower temperatures will prolong cure, higher temperatures will shorten cure time. Every 15°F (-9°C) results in doubling the speed of cure. Therefore, at 90°F (32°C) set time is cut in half, at 60°F (16°C) the set time is doubled.

Shelf Life & Storage

Shelf life is approximately one year if kept in unopened cans in a dry area at 75°F (24°C). If Bonstone Match family is exposed to below room temperature conditions for extended periods of time, it may crystallize, giving it a stiff, grainy consistency. The product must be reconstituted before use by heating it to 150°F (70°C). Stir until it becomes a homogeneous liquid.

Limitations

Use on dry stone. Use on oil, grease, and coating-free stone. Some yellowing and chalking will occur when exposed to ultra-violet light.

Safety

Before storing, mixing, or applying this product, read and understand all the product's Safety Data Sheets. For a copy of the SDS, contact Bonstone Materials at (800) 425-2214.

Warranty

This product’s warranty is limited to replacement of defective material and freight charges to destination only. Bonstone Materials is not responsible for consequential damages.

Testing Data

Strengths	Results	Test Method
Tensile	3,822 psi	ASTM D-638
Compressive	26,498 psi	ASTM D-695
Flexural	420,250 psi	ASTM D-790
Modulus		
Tensile	48,050 psi	ASTM D-638
Compressive	163,976 psi	ASTM D-638
Flexural	420,250 psi	ASTM D-790
Elongation: Tensile: Elongation at break	8.30%	ASTM D-638
Shore D	90	ASTM D-1706
Heat Distortion Temp	130°F (54°C)	ASTM D-648
Shear Strength	1,220 psi Limestone to Limestone	ASTM D-638
24 Hour Water Absorption	0.06%	ASTM D-570
Other	Thermal Coefficient of expansion: 2.16x10-5/F ASTM D-696. Bolt Pull Out: 5/8" bolt, 3" deep in limestone 9,950 psi, ASTM C-1354	