

TECHNICAL DATA SHEET

FILE UNDER DIVISION 4

1. PRODUCT NAME

TOUCHSTONE™
Penetrating Epoxy

2. MANUFACTURER

Bonstone Materials
Corporation

3. PRODUCT DESCRIPTION

A two-component, very low viscosity, exterior grade, clear, crack penetrating epoxy.

Basic Uses:

- Penetration of deep thin cracks in stone for high adhesive strength
- Filling fissures in stone
- Bonding stone to stone
- Consolidate stone slabs

Limitations:

Use on dry substrates. Use on oil, grease, and coating free substrates.

Applicable Standards:

Meets ASTM C-881, Type I, II; Class C, GRADE 1

4. TECHNICAL DATA:

(see next page)

5. INSTALLATION

General Instructions

(If using cartridges, additional usage directions are available. See our information sheet labeled " Cartridge use directions".) See separate doweling, laminating, and patching instructions for more specific instructions. CSI

format specifications are available.

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 only the amount of epoxy which can be used in 10 minutes. Avoid stressing joint before complete cure of epoxy. Mask areas which must be kept free of epoxy. Clean uncured epoxy from tools with toluene or xylene. Remove cured epoxy mechanically.

Mixing instructions:

All materials should be at or above 55°F. Combine the two ingredients at the following volume ratio: two parts A to one part B. Mix thoroughly--- ingredients must be blended homogeneously for proper cure.

Temperature dependency:

Temperature will affect the working properties of the material. Approximately every 10°F results in doubling the speed of cure. Therefore, at 85°F set time is cut in half, at 65°F the set time is doubled. Do not use on a substrate at a temperature below 55°F.

Coverage: Approximately 30 square feet per gallon when applied at 50 mils (1/16th of an inch). 231 cubic inches per gallon.

6. AVAILABILITY

Packaging and storage:

Penetrating is available in quarts, gallons, and 5 gallon pails, and cartridges. Shelf life is approximately one year if kept in unopened cans in a dry area at 75°F.

**If Penetrating Epoxy 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 degrees. Stir until it becomes a homogeneous liquid.

7. WARRANTY

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

8. MAINTENANCE

Designed for application in areas inaccessible to maintenance procedures.

9. TECHNICAL SERVICE

Specification Service

- Specifications for various applications
- Specification writing dept. for unique applications

4. **TECHNICAL DATA** TOUCHSTONE™ Penetrating Epoxy

Values

Test Methods

Typical Mixed Properties:

Mix Ratio: Two parts A to one part B, by volume

Viscosity, mixed, 75°F: 250 centipoise

Pot Life at 75°F: 40 minutes

Typical Cured Properties:

(Cured seven days at 75°F)

Initial set time at 75°F: 6-8 hours

Full cure time at 75°F: within 24 hours

Shore D hardness: 78 ASTM D-2240

Tensile Strength: 5,869 psi ASTM D-638

Tensile Modulus: 464,521 psi ASTM D-638

Tensile Elongation at break: 1.5 % ASTM D-638

Flexural Strength : 12,442 psi ASTM D-790

Flexural Modulus: 464,751 psi ASTM D-790

Compressive Strength: 9,204 psi ASTM D-695

Compressive Modulus: 186,455 psi ASTM D-695