

TECHNICAL DATA SHEET

FILE UNDER DIVISION 4

1. PRODUCT NAME

**BONSTONE[®]
Crack Repair 28
(A-028/B-405)**

2. MANUFACTURER

Bonstone Materials Corporation

3. PRODUCT DESCRIPTION

A two-component, exterior grade, clear, medium viscosity epoxy.

Basic Uses:

- Stone or concrete crack injection, patching and mending
- Bonding stone or hardened concrete to hardened concrete
- Bonding new concrete to existing concrete
- Anchor bolt adhesive
- Bonding stone and concrete to other construction materials
- Bonding stone to stone
- General purpose adhesive for wood, concrete, metal

Limitations:

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

Applicable Standards:

Meets ASTM C-881, Types I, II, IV, V; Class C, Grade 2

4. TECHNICAL DATA:

(see second side)

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-028 to one part B-405. Mix thoroughly--- ingredients must be blended homogeneously for proper cure.

Temperature dependency:

Temperature will affect the working properties of the material. Approximately every 15°F results in doubling the speed of cure. Therefore, at 90°F set time is cut in half, at 60°F the set time is doubled. Do not use on a substrate at a temp. 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:

BONSTONE[®] A-028/B-405 is available in quarts, gallons, and 5 gallon pails, and 300ml and 150ml cartridges. Shelf life is approximately one year if kept in unopened cans in a dry area at 75°F.

**If BONSTONE[®] A-028 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** BONSTONE® Crack Repair 28 (A-028/B-405)

| <i>Mixed Properties</i> | <i>Values</i> | <i>Test Methods</i> |
|------------------------------|---|---------------------|
| Mix Ratio: | 2 parts A-028 to 1 Part B-405 by volume | |
| Pot Life at 75°F: | 25 minutes | |
| <i>Cured Properties</i> | | |
| Initial set time at 75°F: | 3 hours | |
| Full cure time at 75°F: | within 24 hours | |
| Tensile Strength: | 9,469 psi | ASTM D-638 |
| Tensile Modulus: | 228,000 psi | ASTM D-638 |
| Tensile Elongation at break | 5.5 % | ASTM D-638 |
| Compressive Strength: | 13,010 psi | ASTM D-695 |
| Compressive Modulus: | 327,000 psi | ASTM D-695 |
| Flexural Strength: | 17,180 psi | ASTM D-790 |
| Flexural Modulus: | 498,000 psi | ASTM D-790 |
| Shore D Hardness: | 80 | ASTM D-2240 |
| Heat Distortion Temperature: | 135° F | ASTM D-648 |