



# TECHNICAL DATA SHEET

## FILE UNDER DIVISION 4

### 1. PRODUCT NAME

**BONSTONE®  
FAST-SET™ 41 (Buff and  
Cream colors)**

### 2. MANUFACTURER

Bonstone Materials Corporation

### 3. PRODUCT DESCRIPTION:

Bonstone Fast-Set 41 is a 2-component, 100% solids, flowing consistency, moisture-tolerant, high modulus, high-strength, structural epoxy adhesive. It cures at or below freezing temperatures.

#### Where To Use:

- Structural bonding of natural stone, concrete, masonry, metals, wood, etc.
- Anchoring of bolts, dowels, pins, etc.
- Structural repair of natural stone, concrete, masonry, metals, wood, etc.
- Spot bonding of heavy duty stone tiles
- Seal cracks and around injection ports prior to pressure-injection grouting.
- Pick-proof sealant around windows, doors, lock-ups, etc. inside correctional facilities.

#### Advantages:

High strength, high modulus structural epoxy adhesive.

- Excellent adhesion to natural stone, concrete, masonry, metals, wood, and most structural materials.

- Fast-setting and strength-producing adhesive.
- Cures even at sub-freezing temperatures.
- Tolerant of moisture before, during, and after cure.
- Convenient easy mix ratio A:B = 1:1 by volume.

#### Applicable Standards:

Indiana Limestone Institute specifications for units pre-assembled with thermosetting resins.

### 4. TECHNICAL DATA

(see second page)

### 5. INSTALLATION:

#### 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 dry and dust free. Mix only the amount of epoxy which can be used in 5 minutes. Mix container may get very hot if a mass of mixed epoxy is left in container. If the mixed epoxy is very warm, do not use the epoxy—it is too close to the gel stage and will prevent adequate adhesion. 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:** The unmixed epoxy components should be at or above 45°F. Combine the two ingredients at the following volume ratio: one part Part A to one part Part B. Mix thoroughly--- ingredients must be blended homogeneously for proper cure.

#### Temperature dependency:

This product is unique, and cures even at below freezing temperatures.

#### Limitations:

Use on dry substrates. Use on oil, grease, and coating-free substrates. This product will yellow on exterior exposure to sunlight. Due to strong odor this product is recommended for exterior use only.

**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:** Fast Set 41 is available in quarts, gallons, 5 gallon pails and cartridges. Shelf life is approximately one year if kept in unopened cans in a dry area at 75°F.

### 7. WARRANTY:

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

4. **TECHNICAL DATA** Bonstone Fast Set 41

Mixed Properties

Values

Test Methods

**Mix Ratio:** 1 part Part A to 1 part Part B by volume  
**Mixed viscosity at 75°F:** Flowing  
**Pot Life at 75°F:** 5-6 minutes

Cured Properties

**Initial set time at 75°F:** 30 minutes  
**Full cure time at 75°F :** within 24 hours

**STRENGTHS**

**Compressive:** 13,323 psi ASTM D-695  
**Tensile:** 6,443 psi ASTM D-638  
**Flexural:** 11,130 psi ASTM D-790

**MODULUS**

**Compressive:** 292,840 psi ASTM D-695  
**Tensile:** 1,276,006 psi ASTM D-638  
**Flexural:** 751,260 psi ASTM D-790

**Tensile Elongation:** 0.29 % ASTM D-638  
**Shore D Hardness:** 90 ASTM D-2240  
**Heat Distortion Temperature:** Approx. 125 °F  
**Shear strength of limestone-to-limestone bond:** 3,236 psi; stone fractured  
**Bolt pullout, Indiana limestone:** 2,613 psi; stone fracture with cone formation