

# TECHNICAL DATA SHEET

**FILE UNDER DIVISION 4**

## 1. PRODUCT NAME

**TOUCHSTONE™  
Express II Knife Grade**

## 2. MANUFACTURER

Bonstone Materials  
Corporation

## 3. PRODUCT DESCRIPTION

A two-component, exterior grade, very fast setting, transparent knife grade epoxy adhesive.

### Basic Uses:

- Stone laminating, patching, mending and bonding
- Anchor bolt adhesive
- Bonding stone to other construction materials
- Laminating bullnoses & aprons

### Limitations:

Use on dry stone. Use on stone that is free of any oil, grease, or coatings. Some yellowing and chalking will occur when exposed to ultraviolet light.

## 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 tools with un-cured epoxy using toluene or xylene. Use caution, these solvents are flammable and ensure local ventilation. Remove cured epoxy mechanically.

### Mixing instructions:

All materials should be at or above 40°F. Combine the two ingredients at the following volume ratio: Two parts of **Part A** to one part **Part B**.

### Temperature dependency:

Temperature will affect the working properties of the material. 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 substrate at a temperature below 40°F.

**Coverage:** Approximately 30 square feet per gallon when applied at a thickness of 50 mils (1/16th of an inch).

## 6. AVAILABILITY

### Packaging and storage:

**Touchstone Express II** is available in quarts, gallons, and 5 gallon pails. Thickening powders are available for increasing viscosity.

## 7. WARRANTY

This product's 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

- specs for various applications
- spec writing dept. for unique applications

4. **TECHNICAL DATA** TOUCHSTONE™ EXPRESS II KNIFE GRADE

Mixed Properties

Values

Mix Ratio:

2 parts A to 1 part B by volume

Pot Life at 75°F:

5 minutes

Cured Properties

Values

Test Methods

Initial set time at 75°F:

30 minutes

Full cure time at 75°F:

within 12 hours

**STRENGTHS**

Tensile break

4,779 psi

ASTM D-638

Compressive yield:

14,292 psi

ASTM D-695

Flexural break:

14,157 psi

ASTM D-790

**MODULUS**

Tensile:

1,120,989 psi

ASTM D-638

Compressive:

303,779 psi

ASTM D-695

Flexural:

608,485 psi

ASTM D-790

**ELONGATION**

Tensile: Elongation at break

0.45 %

ASTM D-638

Shore D Hardness:

89

ASTM D-1706