

TECHNICAL DATA SHEET

FILE UNDER DIVISION 4

1. PRODUCT NAME

TOUCHSTONE™
Knife Grade Polyester

2. MANUFACTURER

Bonstone Materials Corporation

3. PRODUCT DESCRIPTION

A catalyzed, interior grade, clear, knife grade, peroxide-cure unsaturated polyester.

Basic Uses:

- Stone patching and cavity filling
- Laminating granite & marble
- Countertop seaming
- Can be polished

Limitations:

Use on dry stone. Use on stone that is free of any oil, grease, or coatings.

4. TECHNICAL DATA:

(see next page)

5. INSTALLATION

General Instructions

Surface Preparation & Use:

Use gloves, wear eye protection, and avoid skin contact. When grinding cured patches or non-structural joints, wear a dust mask. Substrates must be completely dry and dust-free. Mix only the amount of Polyester which can be used in 10 minutes. Avoid

stressing joint before complete cure of Polyester. Mask areas which must be kept free of Polyester. Clean tools with toluene or xylene. (Use caution, these solvents are flammable. Ensure local ventilation.)

Mixing instructions:

All materials should be at or above 45°F. Combine the two ingredients at the following weight ratio: three parts hardener to 100 parts Polyester. Mix thoroughly. Prepare only as much material as can be immediately used.

Temperature dependency:

Temperature will affect the working properties of the material. Approximately every 15F 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.

Coverage:

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

6. AVAILABILITY

Packaging and storage:

Touchstone Knife Grade Polyester is available in quarts and gallons. Polyester has a shelf life of six months at 70°F in unopened containers. Under no circumstances should the

hardener be allowed to get above 100°F.

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 interior application in areas inaccessible to maintenance procedures.

9. TECHNICAL SERVICE

Lab Service

- spectrophotometric color matching

Specification Service

- specifications for various applications
- specification writing dept. for unique application

4. **TECHNICAL DATA** TOUCHSTONE™ Polyester Knife Grade_

Mixed Properties:

Gel Time at 70°F: 6 minutes

Tack Free time, 70°F: 12 min

Cured Properties:

Tensile Break Strength: 4,653 psi

Tensile Modulus: 356,947 psi

Tensile Elongation at Break: 1.42 %

Flexural Break Strength: 9,754 psi

Flexural Modulus: 291,522 psi

Compressive Yield Strength: 6,536 psi

Compressive Modulus: 266,113 psi

Shore D Hardness: 87

Shear Adhesive Strength, granite-to-granite: 1917 psi