

Touchstone™ Clarion SF



Product Description

The Touchstone Clarion SF is a versatile, two-part vinyl ester adhesive formulated to deliver high-performance adhesion with a smooth, easy-to-use consistency. Touchstone Clarion SF is a styrene-free formula, that applies and cures with excellent clarity.

Product Features

- Styrene-free formula
- Smooth consistency, making it easy-to-use
- Extremely clear, from application to cure
- Excellent adhesion
- Highly Polishable
- Fast curing
- Compatible with Touchstone Tints
- Available in three viscosities (#1-Flowing, #5-Knife Grade, #9-High Viscosity)



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Applications

- Ideal for bonding Natural Stone, Quartz, Solid Surface, and other hard surfaces
- Perfect for Laminating, Mitering, Seaming, and Structural Adhesion
- Clarion SF #1 for horizontal applications
- Clarion SF #5 & #9 for horizontal and vertical applications

Specifications

| | |
|-------------------------------|--|
| Product Type: | Two-Part Vinyl Ester Adhesive |
| Viscosity: | #1—Flowing, #5—Knife Grade, #9—High Viscosity |
| Mix Ratio: | 98 Parts of Part A to 2 Parts of Part B (Golf Ball-Size Part A to Pea-Size Part B) |
| Pot Life: | 5 Minutes |
| Cure Time (Min @ 70°F): | “Tack-Free” in Approximately 20 Minutes |
| Application: | Trowel |
| Application Conditions: | Interior; Vertical, Horizontal |
| Recommended Application Temp: | 75° F |
| Theoretical Coverage: | 1,604 Sq. Ft. Per Mixed Gallon @ 1Mil |
| Available Colors: | Compatible with Touchstone Tints for In-Field Color-Matching |
| Aspect: | Very Light, Translucent |
| Shore D Hardness: | 85 to 90, All Three Viscosities |
| Gel Time (Minutes): | 2.5 to 5, All Three Viscosities |
| Density (lb/gal: 1,5,9) | 9.2, 9.35, 9.5 |
| Sizes: | Quart Kit, Gallon Kit, 5 Gallon Big Box Kit, Pail Kit |

Surface Preparation

Proper surface preparation is necessary to ensure a strong adhesive bond. The surfaces to receive the adhesive must be clean and sound. Remove all dirt, laitance, loose chips or other foreign matter. Thoroughly clean and dry all surfaces before attempting to apply adhesive. For optimal performance, the components and the substrate should be brought to room temperature (75°F) prior to mixing or applying adhesive.

Mixing Instructions

The resin is cured by blending with 2 parts BPO cream hardener into 98 parts of the adhesive resin. To mix by volume, take a golf ball sized portion of the resin (Part A) and blend in a pea-size portion of the cream hardener (Part B). Mix components thoroughly for one minute and apply immediately.

If color matching is desired, add Touchstone Tints one drop at a time to the golf ball-sized portion of Touchstone Clarion Part A and mix until preferred color is achieved. Once satisfied with the color match, add a pea-sized portion of Part B and mix thoroughly.

Working Time

The total working time is 4-5 minutes. Working time will be shortened when temperatures exceeds 70°F. Work can continue on the stone after the adhesive has fully cured, about 20 minutes.

- The total working time of the adhesive is 4-5 minutes. Only mix as much adhesive as can be applied and bonded within that time period.
- Allow 20 minutes for the adhesive to cure before continuing to work on the stone.
- Lower temperatures and higher levels of humidity will extend curing times.
- Higher temperatures and lower levels of humidity will shorten curing times.
- Use of excessive amounts of BPO cream hardener (over 2%) will shorten the potlife and cure time and this will also result in significant discoloration of the adhesive.

Storage

Always replace all lids during storage. Store indoors at room temperature. Avoid high heat and cold temperatures as these will affect the shelf life.

Safety

Before storing, mixing, or applying this product, read and understand all the product's Safety Data Sheets. For a copy of the SDS, contact Bonstone Materials at (800) 425-2214. This product is designed and intended for industrial use by trained professionals who are familiar with the inherent risks and hazards of the product.

Warranty

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

Testing Data

Bond strength of the Vinyl Ester Adhesive was tested by an independent laboratory employing the ASTM D905 test method (Standard Test Method for Strength Properties of Adhesive Bonds in Shear by Compression Loading).

- 2" x 1.5" pieces of each substrate were bonded to create a 3.0 sq.in. bonding area.
- Five replicate specimens were tested for every sample.
- Reported values are averages of the five specimens.
- Each specimen failed either when the stone substrate split from itself (Stone - Cohesive) or when the adhesive's bond with the stone was broken (Bond - Adhesive).

| BONSTONE CLARION 5 ADHESIVE: ASTM D905 SHEAR BOND STRENGTH | | | |
|---|--------------------------|--------------------------------|-------------------------------|
| | Failure Load Lbs. | Shear Bond Strength PSI | Failure Mode |
| Granite | 3,256 | 1,085 | Stone - Cohesive |
| Marble | 2,607 | 869 | Stone - Cohesive |
| Dekton | 1,607 | 698 | Stone-Cohesive, Bond-Adhesive |



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