

STONE BONDER

Dripless adhesive for seaming Natural Stone and other hard surfaces

APPLICATIONS

Fabrication of mitered edges, laminations and deck seams on:

NATURAL STONE
CERAMICS
SINTERED SURFACES
QUARTZ
GLASS AND MORE

ADVANTAGES

Non Drip / No Sag
Flexible Adhesive
Auto-dispense system
Invisible seams
Pre-mixed in 15 natural stone colors
High strength
UV resistant
Trimable
LOW VOC

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Product Overview

Stone Bonder is a two-part methacrylate, super flexible, dripless/non-sag, low shrink, low exotherm, ultra violet light stable, non-yellowing hard surfacing adhesive designed for the nearly seamless bonding of Porcelain, sintered stone, glass, engineered stone, marble and quartz, and natural stone products.

Combined at a ratio of 10:1 (10 parts resin, one part activator), Stone Bonder has a working time of 10 to 15 minutes, with a 5 to 10 minute De-Roping Time, and achieves nearly 90 percent of its ultimate strength in 45 to 60 minutes at room temperature curing.

Stone Bonder offers a combination of high strength, stiffness, and toughness as well as the ability to bond very strongly to a wide variety of hard surface or inorganic materials.

Stone Bonder permits the seasoned fabricator the opportunity to apply the adhesive to vertical surfaces, as well as horizontal surfaces, without dripping, and upon gelation, gives the fabricator an extended window (5 to 10 minutes) to de-rope, or trim with a single bladed straight edge razor blade, the excess from the stone slab without ripping the adhesive out of the joint, nor damaging the surface of the stone.

Characteristics

Characteristic	Stone Bonder
Working Time	10 – 12 minutes
De-roping time	5 – 10 minutes
Fixture time	20 – 30 minutes
Routable	45 – 60 minutes
Operating Temperature	65°F – 85°F (18°C – 30°C)
Gap Filling	0.250 inches – 5mm
Mixed Density	8.6 lbs/gal (0.98 g/cm ³)
Viscosity – Adhesive	200,000 – 350,000 cps
Viscosity – Activator	75,000 cps
Color – Adhesive	Various
Color – Activator	Colorless / Translucent
Mix ratio	10:1
Tensile Strength – Natural Stone	4,000 – 5,000 PSI / Substrate Failure
Tensile Strength – Quartz	4,500 – 6,000 PSI / Substrate Failure
Flash Point	51°F (11°C) See SDS for more Information
Shelf Life	2 years
Resistances to:	Susceptible to:
Hydrocarbons, Acids and Bases, Vinegar, Wine and condiments, Most household foods	Polar solvents, Super strong acids and bases

Handling and Storage

The shelf life of Stone Bonder is one (2) years from the date of manufacture based upon continuous storage at room temperature (77°F or 25°C). Storage of Stone Bonder in refrigerated compartments will extend the shelf life even more. Do not store Stone Bonder or any other adhesives in a refrigerator which has food or lunch products in them. Be sure to bring Stone Bonder to room temperature for 24 hours before use, otherwise longer cure and fixture times may be expected. Long-term storage at temperatures above room temperature will shorten the shelf life of Stone Bonder, especially the activity of the catalyst. Storage at temperatures above 100°F or 38°C could shorten the shelf life to less than one month. Stone Bonder contains no water, so freezing of the adhesive for short periods is permissible, but is not encouraged.

Application

To assure maximum bond strength, surfaces must be mated together within the specified working time, and all clamps affixed within that time. Use sufficient material to ensure that the joint is completely filled when parts are mated and clamped. Avoid over clamping parts, which may cause a dry joint or a joint starved of adhesive. All adhesive application, part positioning, fixturing, and clamping should occur before the working time of the adhesive has expired. After the indicated working time, parts must remain undisturbed until the fixture time is completed. Sheet, adhesive, and shop temperature can have a significant effect on the work and fixture time of the adhesive. Application of Stone Bonder adhesive at temperatures between 65°F and 85°F (18°C and 30°C) will ensure proper cure. Temperatures below 65°F (18°C) will slow cure and fixture speed. Stone Bonder will still react, but will take longer. Temperatures above 85°F (30°C) will increase cure and fixture speeds, and there's a risk that the adhesive will be hardened or too thick to pull a tight seam. The viscosity of Stone Bonder is affected by temperature.