

OVERVIEW & BENEFITS:

Tenax StoneFill Universal is a premium, two-component, solvent-free transparent epoxy system designed for bonding, filling, and repairing natural stones. It offers fast reactivity for quick tack-free time, high transparency with low yellowing, and excellent crack-filling capability. The product enhances the natural beauty of stones with superior gloss, good wetting, and moderate color enhancement. Suitable for Italian stones and structural repairs.



KEY FEATURES:



High Bond Strength

Exceptional adhesion to stone surfaces, ensuring durable and lasting repairs.



Polishable Finish

Once cured, the surface can be polished to a high gloss, blending seamlessly with the stone.



Excellent Penetration

Flows easily into cracks and pores, reinforcing the stone from within.



Low Shrinkage

Maintains volume during curing, ideal for filling large gaps and voids.



Color Customization

Compatible with Tenax coloring pastes for precise color matching.

APPLICATION PROCESS:

Surface Preparation

- Clean the stone surface thoroughly using a suitable degreaser.
- Remove all dust, oil, and moisture.
- Use compressed air for deep cracks or holes.
- Ensure the surface is completely dry before application.

Mixing Components

- Mix Part A (resin) and Part B (hardener) in a 100:50 ratio by weight.
- Stir slowly and thoroughly for 1–2 minutes to avoid air entrapment.
- If color adjustment is needed, add a small amount of tinter to the resin before mixing in the hardener. For best result use Tenax colorant.
- Apply the mixed epoxy using a spatula, toothed spreader (or notched trowel).
- For deep voids, apply in layers to prevent sagging and ensure full curing.
- Press firmly into cracks to eliminate air pockets.
- For bonding, apply a thin, even layer to both surfaces before joining. For best result more than 1 coat is recommended.

Curing & Finishing

- Allow to cure undisturbed for 24 hours at 20–25°C.
- After curing, grind and polish with diamond abrasives for a seamless finish.
- Clean the surface with a neutral cleaner to remove any residue.

TECHNICAL DATA:

Individual Components

Property	Unit	Value
Resin; appearance	visual	Clear liquid
Hardener; appearance	visual	Clear liquid
Resin; colour	gardner scale	Max. 1
Hardener; colour	gardner scale	Max. 1
Resin; viscosity @ 25±1 °C	cPs	900 – 1300
Hardener; viscosity @ 25±1 °C	cPs	400 – 500
Resin; density @ 25 °C	gm/ml	1.10 – 1.15
Hardener; density @ 25 °C	gm/ml	0.98 – 1.10

After Mixing

Property	Unit	Value
Mixing ratio	by weight	100:50
Gel time @ 25±1 °C, 100 gm mix mass	minutes	12 – 16
Hardness, after 24 hr curing at 25 °C	shore-D	Min. 75
*Tack free time at 25±1 °C of approx. 200 micron film	minutes	Min. 120
*Tack free time at 40±1 °C of approx. 200 micron film	minutes	Min. 80
Time to polish at 25±1 °C	hours	After 24*

*Note: Actual time may vary depending upon ambient temperature and humidity.

RECOMMENDED USES:



Crack Filling & Surface Repairs

Ideal for restoring natural stones with precision.



Large Voids & Gaps

Perfect for durable, polishable finishes.



Gloss & Color Enhancement

Improves aesthetics of marble and Italian stones.



Pigment Compatibility

Works seamlessly with epoxy pigment pastes for color matching.

DO'S AND DON'TS:

Category	Do's	Don'ts
Surface Prep	Ensure the surface is clean and dry before application.	Do not apply on wet, dusty, or dirty surfaces.
Mixing	Mix resin and hardener in 100:50 by weight ratio in a clean container.	Do not alter the mixing ratio or add excess resin/hardener.
Application	Apply using a fine-toothed spreader, brush, roller, or trowel. Apply multiple coats for large fissures or porous surfaces.	Do not skip sealing deep cracks from the backside of the stone.
Timing	Consume the mixture within 8–10 minutes at 25°C.	Do not delay application beyond the workable time.
Polishing	Polish after 24 hours, depending on ambient temperature.	Do not polish immediately after application.
Storage	Store in original tightly closed containers in a cool, dry place away from heat and sunlight. Avoid freezing conditions.	Do not expose to heat sources or freezing environments.
Quality	Follow exact mixing proportions for optimal mechanical and chemical properties.	Do not assume warranty for improper application or unsuitable conditions.

STORAGE AND SHELF LIFE:

Store in a cool, dry place away from direct sunlight and extreme temperatures. Keep containers tightly sealed. Shelf life is 24 months in original, unopened packaging under recommended storage conditions.



Pidilite Industries Limited, Ramkrishna Mandir Road, P. O. Box No. 17411, Andheri (E), Mumbai - 400 059

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