

# Tough Stone Repair Instructions



## Mortar Preparation

Where relevant, for colour consistency use a full bag of repair mortar.

Mix 1 part water with 4-5 parts repair mortar. Mix mechanically at 300 to 400 rpm for at least 3 minutes to a firm, workable consistency.

## Repair Method

Ensure surface to be repaired is free from dust, dirt, oil and loose particles.

Sound stone should be purged to at least 5mm.

Area to be repaired should be delimited in a dovetail shape to ensure that the repair blends well.

Surface must be dampened down to ensure efficient bonding.

For repairs deeper than 30mm, non-ferrous metal supports, appropriate to the weight and shape of the repair, should be fixed.

Using an appropriate tools for the repair, the mortar should be firmly pressed into the existing stone ensuring that there are no gaps.

Mortar should be applied in successive passes of 1cm to 3cm, fresh on fresh, with each left rough. Final pass can be smooth.

If metal reinforcements have been used these should be covered with a minimum of 1cm and a maximum of 4cm.

Minimum final thickness is 5mm.

The repair can be shaped for up to two days after application. Once fully cured, the repair can be modelled with stonemason's tools.

## Notes

Product should only be applied in temperatures between 8°C and 30°C

In hot temperatures or direct sunlight the repair area should be damped down with a water filled hand sprayer every 3 to 4 hours or covered with damp hessian and allowed to cure.

The tools used for applying the repair mortar can be cleaned with clear water.



## TECHNICAL CHARACTERISTICS

Dry density:	1200 to 1300 g/L
Wet density:	1600 to 1700 g/L
Compressive Strength at 28 days:	12 to 15 MPa
Flexural Strength at 28 days:	4 to 6 MPa
Elasticity modulus:	13000 to 15000 MPa
Shrinkage:	<0.9 mm/m
Vapour permeability:	15 $\mu$
Granulometry maximum:	1mm
Capillarity:	0.02-0.04 kg/m <sup>2</sup> .min <sup>1/2</sup>

**Storage** - Can be stored for a maximum period of 6 months, provided the material is stored in sealed packing, in a dry, cool and frost proof place.

## SAFETY INFORMATION

- **Keep Out of Reach of Children**
- Special care should be taken to prevent dust from becoming airborne
- Do not breathe dust - wear respiratory protection during mixing.
- Irritating to eyes and skin
- Avoid contact with eyes and skin
- Risk of serious damage to eyes
- In case of contact with eyes and skin rinse immediately with plenty of water and seek medical advice
- If swallowed seek medical advice immediately and show this label or container
- Gloves and eye protection should be worn during mixing and application.
- Contains natural and/or synthetic pigment: CAS No. 1309-37-1