

Stone Repair Instructions



Mortar Preparation

1. Where relevant, for colour consistency use a full bag of repair mortar.
2. Mix 1 part water with 4-5 parts repair mortar. The mix should form into 1.5cm to 2.5cm balls and be slightly dry.

Repair Method

3. Ensure surface to be repaired is free from dust, dirt and loose particles.
4. Substrate should be pre-moistened and damp but not too wet. Weather factors such as direct sunlight should be taken into account.
5. Loose and crumbling material should be removed and can be treated with Total Wall Care Stabiliser prior to repair.
6. Using an appropriate trowel for the repair, the mortar should be firmly pressed into the existing stone ensuring that there are no gaps.
7. Deep repairs should be built up in layers no more than 20mm deep and allowed to cure.
 - 7.1 The first layer should be slightly wetter than the main mix. Roughly the consistency of smooth peanut butter.
8. Any top skin that forms should be scrapped back between layers.
9. Final layer should be 3mm to 10mm proud of the surrounding surface and allowed to cure. 3mm is sufficient for flat stone.
10. The repair can then be shaped and modelled with appropriate tools for up to two days after application.

Notes

11. Product should not be applied in temperatures below 5°C.
12. 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.
13. The tools used for applying the Stone Repair Mortar can be cleaned with clear water.
14. Any splatters in undesired places should be removed with clear water.



TECHNICAL CHARACTERISTICS

Compressive Strength (EN 1015-11 :	>1.9MPa to >5.2 MPa from 1 to 28 days
Flexural Strength (EN 1015-11 :	>0.9MPa to >3.4 MPa from 1 to 28 days
Water Mixing Factor (Litre/Kg)	7-9
Volume mixed mortar (ml/Kg)	700
Consumption (Kg/m ² , 15mm thickness)	1.25

Coverage is dependent on the depth of the repair.

On average a 1Kg of Kalx Stone Repair will cover 0.7m² at a thickness of 1mm.

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**
- 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
- Do not breathe dust
- 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 Synthetic Pigment: CAS No. 1309-37-1
- May contain Amorphous Silica CAS No. 7631-86-9

Total Wall Care Colour Match Products

A range of high quality products for colour matched repairs to brick and natural stone elements. All of the products enable the existing colour to be matched or changed without affecting the substrate's ability to breathe.



Brick Repair Mortar

Hydraulic lime based repair mortar for the repair and restoration of brick.

The mortar is extremely workable enabling the recreation of contours and profiles, and surface textures. It is a perfect solution for refacing crumbling bricks, and repairing chips and impact damage. Available in a range of colours and sizes.



Pointing Mortar

Available in a range of sizes, colours and grades, this high quality, lime-based pointing mortar is ready to use once mixed with water.

The mortar is extremely workable enabling both smooth and textured finishes with appropriate tooling techniques.



Colour Matching Tints

Simply shake to use, permanent brick tint. For staining mismatched bricks, replicating ageing and discolouration, to recolouring entire buildings.

Can be used on brick, porous natural stone, concrete and mortar beds.

Available in a range of sizes, colours and grades, as well as Soot Wash and Lime Wash.



Crack Injection Kit

Available in a range of common brick colours, this specialist, lime-based crack injection mortar is ready to use once mixed with water. Supplied with a syringe for injecting into narrow cracks.

Please see website for full range of colours and current special offers!



Professional Brick Tint Kit

Enables the trade professional to create their own shades of brick dye for staining brick, natural stone, concrete and mortar. Contains 4 x 1L of Base Tinting Fixative (makes 12L fully diluted) and 14 x 75ml of pigments.



Professional Brick Repair Kit

Contains 400ml all 16 Colours of Brick Repair Mortar along with Soot Wash and Lime Wash. It's a excellent kit for carrying out small repairs and sample/test panel repairs.



Brick Tint Multi-Packs

Build your own multi-packs. Mix and match from from the full range of brick tints to build your own 3, 6 or 12 x 300ml packs. Perfect for replcating walls of varying coloured bricks, ageing and natural colour variation.

Also available as a combined "Brick Restoration Kit" at a special rate.
Please see website for details.

Total Wall Care Cleaners & Protectants

A range of high quality products for cleaning and protecting walls from the elements, pollution and vandalism.

In order to protect the environment and the health of the applicator, our range of cleaners and protectants are either water-based or, where absolutely necessary, low toxicity solvent based.

Cleaning, protecting and consolidating substrates without changing their colour or gloss is imperative and extensive testing has been carried out both in the laboratory and in the field to keep the possibility of this to an absolute minimum. All available in 1L, 2.5L and 5L sizes.



Alkaline Cleaner

A strong, water based, alkaline cleaner for compact carbonate stone. To remove the surface patina caused by pollution on carbonate matrix materials. It effectively removes grease and oily substances.



Anti-Graffiti Coating

A mixture of organic silicon compounds and micro-crystalline waxes in a water solution. Protects stone materials and structures from the spray paint used in graffiti, so that it can be easily removed.



Biocide Cleaner

A biocide suitable for wide-ranging use, it is non film-forming on the surface and it doesn't alter the original colour of the substrate. Used to remove algae, lichen, mould, yeast, moss, fungi etc.



Delicate Cleaner

An ammonium bicarbonate-based stone cleaner. It is Suitable for delicate stone materials of carbonate type and/or silicate matrix stone materials. It is recommended specially for removing "black crusts".



Graffiti Remover

Ideal for removing graffiti from delicate stone materials, brick, fine marble, natural stone, lead-polished stone, imitation stone, concrete, metal and glass. The product also removes glue left behind by adhesive tape.



Oil Stain Stop

Eco-friendly, water and oil-repellent protective coating with biocide function. Protects walls from water and oil without altering their colour. Suitable for natural stones, marble, granite and concrete.



Stabiliser

Protects and consolidates both silicate matrix and carbonate matrix stone materials. It protects materials by limiting water absorption and it also improves the surface cohesion of the stone.



Storm Pro

Ecological, water based, water-repellent protective coating. Protects substrate from frost, salt water, condensation and airborne pollution. Does not change the appearance or reduce the permeability of the substrate.



Storm Pro Plus

Protective, hydrophobic coating. Penetrates deeper into the substrate to provide an extremely effective means of protection against acid rain and other pollutants.

HELICALFIX®

Steadfast work in close partnership with one of Europe's leading manufacturers of precision engineered helical bar products to bring you our HelicalFix range of helical masonry reinforcement products. With proven, successful and reliable installation spanning back several decades, helical reinforcement bar has a tensile strength that is twice that of normal stainless steel, and has unique torsional elastic yield characteristics particularly when combined with thixotropic, cementitious grout which locks between the fins and bonds to the masonry.



CRACK STITCHING BARS

High tensile, austenitic stainless steel, helical crack stitching bars for reconnecting cracks in walls.

- Repair, stabilise and reinforce cracked brickwork
- Minimal cost and little disruption to install
- Redistributes loads
- Provide resilience against further cracking



CRACK STITCHING KIT

HelicalFix Crack Stitching Kits contain all the materials needed for reconnecting and repairing cracks in brick, block and stone walls.

- Helical Crack Stitching Bars
- HeliGrout Encapsulation Grout
- Coloured Pointing Mortar



WALL TIES

High tensile, austenitic stainless steel helical wall ties. For replacing failed or inadequate wall ties. Hammer-driven into small pilot holes, the remedial ties corkscrew into brick, block and concrete to deliver a mechanical fix that grips the wall on each side of the cavity.



LONG HELICAL BARS

HelicalFix high tensile, austenitic stainless steel, 10m long helical bars used for bed joint reinforcement. Using thixotropic, cementitious grout, the high tensile, stainless steel helical bars are concealed within slots cut into mortar beds at predetermined levels to form deep masonry beams that span areas of poor support.



ENCAPSULATION GROUT

HelicalFix HeliGrout is a cementitious, thixotropic, non-shrink injection grout for encapsulating and bonding stainless steel helical bar to masonry for structural repair applications. Available in a range of colours and grades.



EPOXY REPAIR PUTTY/GLUE

An extremely versatile product suitable for filling, repairing, moulding & guing. Hard and impermeable, Water stop. Can be applied underwater.



BETONFIX MONOLITE - CONCRETE REPAIR

An Excellent all-in-one concrete repair mortar, for structural and non-structural repair of reinforced concrete. Available in Normal and Rapid curing formulations.



HYDRAULIC LIME RESTORATION MORTARS

A range of hydraulic lime based repair mortars manufactured to meet both the demands of age old traditional and modern methods of restoration and repair.

- Pointing Mortar - Range of 28 Colours
- Stone Repair - Range of 56 Colours
- Helical Bar Encapsulation Grout - The only lime-based helical bar grout on the market. Available in a range of 28 colours.

Steadfast Specialist Products

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