



Waterproof, Non-Shrink, Polymer Modified, Fibre Reinforced, Concrete Replacement Repair Mortar For Repairing Floors and Horizontal Areas

General

SS – StructoRep FL is a one component, non-shrink, waterproof, fibre reinforced, trowel grade repair mortar, which can be used for a variety of repair operations, where concrete replacement is required as part of repair strategy prior to Protective Coatings / flooring systems. It is a general-purpose solution to repair and restore concrete substrates. **SS – StructoRep FL** ensures excellent strength development and bond to offer a restored substrate that can be utilized in a reasonably short time and a reasonably, waterproof and crack free protection is obtained. The material is available as a trowel applied grade.

SS – StructoRep FL is specially formulated to meet the requirements described above, owing to the selection of particularly suitable cements, special strength enhancing additives, spray aids, polymer binders and well – graded fillers. **SS - StructoRep FL** benefits the user by being easy to apply, provides an excellent surface for Protective Coatings like **SS - ProtectoCon Paver** or other systems. The material is internally fibre reinforced.

The mortar conforms to strength and durability requirements of EN 1504 and ensures a stable, water-tight, concrete replacement that most importantly does not crack.

Product Features

- Well graded cementitious mortar
- Special Trowel Grade Developed for Quick Floor Repair
- Easy to mix and place, available in trowel grade
- Sets and hardens rapidly to ensure quick overcoating
- Easy to level and finish
- Suitable for thicknesses of 50 mm in one pass
- Excellent resistance to water, alkalis, oil and salts
- Excellent adhesion to concrete
- Can be used as concrete replacement in structural repairs
- Repairs small spalls
- Fibre Reinforced



Areas of Application

- Repairing spalled or honeycombed concrete on horizontal surfaces
- Smoothing and levelling broken concrete surfaces
- Repairing Large Concrete Areas on horizontal surfaces
- Replacement of damaged concrete in bridges, industrial buildings and Floors
- Can be used in repair of jetties and marine structures
- Patching Mortar prior to waterproofing and coatings
- Patching Mortar for Broken Edges
- Repair of Driven on Surfaces
- Repair of trafficked surfaces

Areas of Application

Specification Keywords	Non-Shrink, Waterproof, Polymer Modified, Trowel Applied, Structural Repair Mortar, Underlay for Protective Coating Systems, Repairs, Floors, Bridges, Large Areas, Industrial
Delivered As	Grey Powder
Storage Instructions	Store in a cool and dry area away from sunlight, in original packaging
Shelf Life	12 Months
Post Use	Empty packaging completely. Dispose as per local regulations.
Packing Size	30 kg



Hazards and Safety



Technical Data

Sp. Gravity	1.8 ± 0.05
Min. Use Temperature	20°C
Pot Life	25 to 30 Minutes
Setting Time	4 to 8 hours depending on ambient temperatures
Compressive Strength	> 45 N/mm ² in 28 Days
Flexural Strength	> 4.5 N/mm ² in 28 Days
Mixing Ratio	10 to 12% Water by weight of Powder depending on consistency requirements.
Consumption	1.8 kg Powder / liter Volume.

Instructions for Use

Prior to use, adequate surface preparation is needed. The substrate should be structurally sound, free from oils, grease, dust or curing compounds, etc. The cracked surfaces should be free from paints and laitance. The substrate should be damp, not saturated prior to application of **SS – StructoRep FL**. Remove any and all dust in the cracks / substrates using an air blower or a stiff brush.

Weigh out the water and **SS – StructoRep FL**. Add the powder to the measured water and not vice-versa as it helps in dispersion of the polymers. Mix Mechanically for 2 to 3 minutes to get a smooth mixture. Water if needed can be added to get the correct consistency. It can also be used with wet spray equipment with suitable nozzles. Apply on to area primed with **SS - AntiCorr AC**.

Apply to the intended substrate, using a suitable mortar sprayer in 1 to 2 coats as required, with 3 to 5 hours between coats. After the mortar has dried, smoothen the surface using sandpaper or a stiff sponge. Cure like polymer modified mortars.

Mix and use complete bags for best results. In heavily trafficked areas, use of an apt bonding coat may be required.

Safety and Precautions

- Mix only small quantities that can be used within 30 minutes.
- Water should not be added to hardened mortar.
- Higher temperatures accelerate the hardening and lower temperature delays it.
- The mortar requires adequate protection from drying out and needs curing. Contact us for any other special applications.
- Take suitable safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.