



www.soflooring.com

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## Data Sheet

# SO RAPID

## RAPID REPAIR MORTAR FOR INTERNAL WALLS & FLOORS



### DESCRIPTION

SO Rapid Repair Mortar is a fast setting, rapid drying repair compound for internal repairs. It is designed for repairing, re-facing, filling and patching internal: concrete, sand/cement screed, render, stair-treads/risers, walls, ceilings, soffits and for making good around pipework. SO Rapid Repair Mortar can also be used to form ramps up to 50mm.

SO Rapid Repair Mortar is designed to be used between depths of 2mm – 20mm unfilled, and when mixed with aggregate can be applied to depths of 50mm. The mortar reaches initial set after 15 – 20 minutes, is set sufficiently to walk on after 30 minutes and can be covered with tiles or soft flooring after 90 minutes, regardless of the application thickness.

### SUBSTRATES:

- ✓ Sand/Cement Screed
- ✓ Concrete
- ✗ Plywood Overlay (12mm min)
- ✗ Chipboard Overlay (18mm min)
- ✓ Electric Underfloor Heating\*
- ✓ Water/Wet System Underfloor Heating\*
- ✓ Tile Backer Boards
- ✓ Existing Ceramic, Porcelain and Natural Stone Tiles
- ✗ Flooring Grade Asphalt & Bitumen
- ✗ Anhydrite Screeds
- ✓ Fibre Cement Sheet
- ✗ T & G Floorboards
- ✗ Floating Floors
- ✗ Existing Vinyl Tiles
- ✗ Steel/Metal Surfaces
- ✗ Fibreglass
- ✗ Green Screed

\*When mixed with Flexmaster Additive

### SUBSTRATE PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the floor composition. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion. Smooth surfaces should be abraded with a wire brush or mechanically in order to remove contamination and improve the key for the mortar. Absorbent surfaces should be dampened with clean water prior to applying the mortar. Direct to earth subfloors must have an effective Damp Proof Membrane.

### PRIMING:

Priming is not usually required prior to applying the Rapid Repair Mortar. Absorbent surfaces should be dampened with clean water. Very absorbent surfaces should be primed with Primeplus diluted 3 parts water to 1 part Primeplus. Non-Absorbent surfaces should be primed with a Primeplus slurry coat. The Slurry Mix consists of 1 part water to 1 part Primeplus mixed with approximately 30% by weight of Rapid Repair Mortar, cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before applying the Rapid Repair Mortar. Alternatively prime the surface with one coat of Prime + Grip and allow to dry.

### MIXING:

Mix by adding powder to water and mix a quantity that can be used before the product loses workability, usually 10 - 15 minutes at 20°C. Any product that has started to set must be discarded.

**Standard Mix (un-filled):** Mix by adding powder to water, approximately 1.9 - 2.2 litres of water to 11kg of Rapid Repair Mortar, alternatively mix 1 part water to 5 parts powder by weight. Mix ideally with an electric paddle and mix to a smooth, lump free consistency. When mixed with 1.9 litres of water, the mortar will have more control making it suitable for vertical applications. When mixed with the higher water content, the mortar becomes wetter and slightly flowable, ideal for certain floor applications. The Standard Mix should not be applied greater than a 20mm depth.

**Filled Mix:** Add 3 - 5mm aggregate to the standard powder at a ratio of 1 to 1; e.g. 11kg Repair Mortar to 11kg of aggregate. Mix by adding powder to water, approximately 1.9 - 2.2 litres of water to 11kg of Rapid Repair Mortar, alternatively mix 1 part water to 5 parts powder by weight – please note, the water additions may vary slightly depending on the aggregate used. Mix ideally with an electric paddle. The Filled Mix should be used when applying to depths above 20mm and for increased economy. Filled Mix is suitable for depths of 5 - 50mm.

### APPLICATION:

The mixed Rapid Repair Mortar should be used immediately. Trowel the mortar onto the prepared surface and spread to the required thickness using a steel trowel. The mortar can be applied slightly proud and any excess can be removed after 15 – 20 minutes. For a smoother finish, the mortar can be improved by wetting and smoothing the surface before the mortar has fully set, typically after 15 - 20 minutes. When applying the Filled Mix and to improve the surface finish, we recommend applying the mortar slightly below the required level and allow to set. Once the initial coat has hardened, another thin coat of unfilled mortar or self-levelling compound (e.g. Levelflex, Fineflow 3000 or Rapid Level 30) can be applied if necessary to improve the surface finish. If using Rapid Repair Mortar as a final wearing surface a suitable covering/coating is required.

### SETTING AND COVERING:

Rapid Repair Mortar will initially set after 15 - 20 minutes and should be sufficiently set to walk on after 30 minutes. The mortar can be covered with a self-levelling compound or the finished flooring after 90 minutes, depending on the application substrate and the ambient conditions/temperatures. Do not use below 50C.

**NB:** The pot life and drying times depend on the ambient temperatures. At lower temperatures they will be extended and at higher temperatures they will be shortened. Clean tools immediately after use with clean water.

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Standard Conformity	Conforms to EN 13813 CT-C30-F7
Open Time / Working Time	Approximately 10 – 15 minutes (at 20°C)
Light Foot Traffic	Approximately 30 – 45 minutes (at 20°C)
Availability to Cover	After Approximately 90 minutes (at 20°C)
Application Depth	2mm – 20mm Un-filled 5mm – 50mm Filled
Application Temperature	5°C - 30°C
Compressive Strength (to BS EN 13892-2)	28 day > 30.0 N/mm-2
Flexural Strength (to BS EN 13892-2)	28 day > 7.0 N/mm-2
Pack Size	11kg
Colour	Grey
Shelf Life	6 months when stored in cool, dry, frost-free conditions
Note	For use in interior locations only

### HEALTH AND SAFETY

SO Rapid Repair Mortar contains Portland cement and is therefore classed as Irritant. Risk of serious damage to eyes. Contact with dry or wet product may cause irritation, dermatitis or burns. Wear suitable protective clothing, impervious rubber or plastic gloves and goggles. Use a light mask if excessive dust is unavoidable. If product comes into contact with skin, wash immediately with plenty of clean water. If product comes into contact with eyes, wash immediately with plenty of clean water for 10 to 15minutes and seek medical attention. Keep out of reach of children.

For further information refer to the Material Safety Data Sheet.

The information contained on this spec sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

Tilemaster Adhesives Ltd., Unit 4, Tomlinson Point, Tomlinson Road, Leyland, Lancs, PR25 2DY	
<b>EN 13813:2002</b> <b>CT-C30-F7</b> Fast drying, cement based self-levelling compound for use in interior locations	
Reaction to fire	E
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NPD
Compressive strength	C30
Flexural strength	F7
pH	NPD
Wear resistance	NPD
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD