

MBFT Overlay

Thin-set concrete floor re-surfacing system

Description

MBFT Overlay is used in combination with **Samson Polymer 1:3**, to provide a system for thin-set (6 to 20mm) toppings to concrete floors. The MBFT Overlay is a powder, quartz aggregate blend with cementitious binders and shrinkage compensation additives.

Samson Polymer 1:3 is a milky latex rich liquid, that is added to the **MBFT Overlay** powder.

Preparation

The concrete floor surface must be free of laitance, oil, dust or loose particles, which will interfere with the topping bond. Scabbling or other treatments may be necessary dependent on the condition of the floor.

Bonding Layer

Use **P3 Primer** cementitious bonding agent, mixed to a slurry with water, applied at 0.5 – 1mm thickness as a bonding layer.

Mixing Instructions

The topping is batched by adding approximately 3 litres of gauging liquid (12%) per 25kg bag. The mix should be semi self-levelling in consistency.

Placing

Place lats or strip forms, to establish the desired finished level. Using a stiff brush, spread the **P3 Primer** evenly over the floor surface, and scrub this well to fill cavities and to take up residual dust. Striations of the brush should be allowed to stand proud on the floor in the wet **P3 Primer**.

Whilst the **P3 Primer** is still wet, the topping mix should be placed and tamped to fill voids and expel air and then straight-edge to the level required. Proper wetting out of the topping mix to the bond coat is essential for good long-term bond success.

Floating

Wood-float the surface to ensure complete elimination of pinholes and to expel entrapped air and eliminate surface bubbles. Floating with the wood-float flat on the surface draws out air and consolidates the topping mix. Protect the surface against early drying through exposure to wind of sun.

When the topping has set sufficiently to commence steel floating, float keep the blade flat initially onto the surface and using circular movements.

When the surface has further tightened by setting, final finishing may commence.

Each time a float or trowel is removed from the surface, wipe it clean otherwise semi-set paste will become sticky and difficult to remove. To avoid trowel drag (fine cracks due to semi set material being pulled by the trowel), await proper hydrative set before attempting to finish and wipe the trowel blade with **Samson Polymer 1:3** solution to stop sticking.



Samson Technologies cc

Unit 4, Trevallyn Park East, Hyskraan Close, Kya Sands, Randburg, ZA

Tel: +27 (0)11 462 2666 **Email:** info@samson.co.za **Web:** www.samson.co.za

Warranty

Samson warrants that its products will perform as declared in its literature and this warranty extends only to the replacement of any of its products that may be proven to be defective.

Disclaimer

Samson Technologies retains the right to change any information in our literature, at any time, without prior notification.

Power Floating

Despite its thin section placement, carefully controlled, MBFT Overlay may be power floated and machine finished. To avoid stripping of the overlay mortar from the substrate, care must be taken to allow sufficient set to take place to accommodate the weight and movement of the power float machine.

Protection and Curing

Protect the finished work against wind and sun and allow overnight to cure. Use HC Sealer as a chemical pore blocker and surface densifier. MM Sealer may be used as a finishing sealer after the floor surface has fully cured.

Stress Relief Joints

Follow normal industry practice as regards panel sizes and shrinkage stress relief. The system is low shrinkage, high strength, but large panels will need stress relief joints.

Packaging and Storage

MBFT Overlay is supplied in 25 kg polyprop woven bags.

Store in cool dry conditions as for Portland cement.

MBFT Overlay has a self-life of 12 months if stored correctly.

Estimating Data

6mm thick	12kg/m ²
10mm thick	20kg/m ²
15mm thick	30kg/m ²

Colours

MBFT Overlay comes in a variety of colours, as with MBFT dry-shake and MBFT SL. Special lead times are required to manufacture colours as these are not kept as stock items.

Notes:

All coloured floors require extra attention and care both during and after installation. The floor must be protected from damage, staining, mixing of dagha etc. after completion. Many factors on site affect the final shade and appearance of a coloured concrete floor.

Burnishing of the surface can cause irregularity of the coloured surface.



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