

MasterTop 195

Thin-set concrete floor re-surfacing system

MATERIAL DESCRIPTION

MasterTop 195 is used in combination with **MasterCast 111**, to provide a system for thin-set (10 to 20 mm) toppings to concrete floors. The **MasterTop 195** is a powder, quartz aggregate blend with cementitious binders and shrinkage compensation additives and **MasterCast 111** is a milky liquid for modifying the **MasterTop 195** mortar.

For thickness exceeding 20mm, a 4-9mm quartz aggregate may be introduced, not exceeding 40% by weight of the **MasterTop 195** 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 mechanical methods of surface treatments will be necessary dependent on the condition of the floor.

EPOXY BONDING – RECOMMENDED METHOD OF BONDING

Mix and apply either **MasterBrace ADH 1414** or **MasterBrace ADH 2200** epoxy bonding agent, depending on application, in accordance with the recommended procedure contained in the relevant data sheet. Typical spread rates are $\pm 1.5\text{m}^2 - 2\text{m}^2/\text{litre}$ when applied using a stiff bristle broom or brush. (Scarified surface)

ACRYLIC BONDING (ALTERNATIVE)

Whilst the first batch of topping is being mixed, apply the already mixed bond coat slurry consisting of 1 litre **MasterCast 111** and 1 litre water and 5kg cement over the area on which this mix will be placed. Typical spread rate for the above mix is 3m^3 .

MIXING INSTRUCTIONS

The topping is batched by adding approximately 3 litres of gauging liquid, which consists of 1-part **MasterCast 111** to 4 parts water solution to each bag of **MasterTop 195** powder. Machine mixing is best, but a board or wheelbarrow may be used for hand mixing on small jobs. The mix should be a soft mortar consistency.

PLACING

Place slats or strip forms, to establish the desired finished level. Using a stiff brush, spread the bond coat evenly over the floor ensuring that the material is pulled out as thinly as possible.

Whilst the bond coat is still wet the topping mix should be placed and tamped to fill voids and expel air and then straight edged 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 or sun. Cover with thin plastic sheeting during plastic phase set.

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

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 hydrated set before attempting to finish and wipe the trowel blade with a 1:3 "**MasterCast 111**" /water solution to stop sticking.

POWER FLOATING

Despite its thin section placement, carefully controlled, **MasterTop 195** 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 a lightweight power float machine.

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PROTECTION AND CURING

Protect the finished work against wind and sun and allow overnight to cure. First thing next day, apply a liberal coat of **MasterKure 181** curing compound, and allow drying. The floor should be allowed at least 3 days curing before putting into light duty use and 7 days before full use.

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. (follow C&CI recommended practice).

PACKAGING

25 kg poly-lined bags.

SHELF LIFE

Shelf life is 12 months from date of manufacture when stored in undamaged, unopened packaging.

STORAGE

As for Portland cement, keep dry in closed bags.

ESTIMATING DATA

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

COLOURS

Please liaise with Master Builders Solutions on the colour range.

Allow sufficient lead-time to manufacture special colours.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

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* Properties listed are based on laboratory controlled tests.

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