

# MBFT Dry Shake

## (Moisture Barrier Floor Topping)

Densifying and strength enhancing dry-shake treatment for water-tight concrete floor surfaces

### Description

**MBFT** is a blend of selected cements, pozzulanic fillers and aggregates chemically treated for efficient combination onto the surface of concrete during construction at initial set.

**MBFT** contains microcrystalline admix and polymers to provide a surfacing that does not require a curing membrane to reach its full potential.

### Advantages

**MBFT** provides a monolithic surfacing to concrete that reaches over 60N/mm<sup>2</sup> at 28 days. The incorporation microcrystalline admix and polymers into **MBFT** provides secondary micro-crystal growth in the topping which densifies the surface, and at 48 hours cure, blocks moisture rising from the substrate and holds in moisture required for full hydration and reduction of drying shrinkage in the underlying concrete.

**MBFT**, by assisting equalisation of the drying rate of the surface to the substrate, provides a useful reduction of curling tendencies in floor slabs. **MBFT** often eliminates the need for sub-grade vapour barriers dependant on allowable moisture transmission rates. **MBFT** treated floors remain "breathable".

### Application Rates

**MBFT** is applied at between 3 to 6 kilograms per square metre dependant on the intended circumstances of use of the floor. Samson technical staff pre-construction consultancy will provide motivated guidelines for correct choice.

### Installation

**MBFT** is spread onto the surface of the concrete at approximately initial set and finished to a smooth or swirl trowel texture at final set. For evenness of spread two applications are recommended;  $\frac{2}{3}$  of the selected rate first, followed by the balance immediately after incorporation of the first shake.

Request the Samson detailed method statement if needed.

### Curing

Membrane forming, curing compounds are not needed for **MBFT** treated concrete to reach its full potential. Where full cover controlled environments exist, only careful regular washing with an alkaline surfactant is necessary for 48 hours after completion of the floor. Use a squeegee to remove pools of excessive water to promote even drying. Where conditions require early curing a single application of HC Sealer may be applied.



### 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.

### Aftercare

Various treatments may be recommended for in service care of **MBFT** treated concrete. Generally, just washing with liberal amounts of water and an alkaline detergent is needed. The floor will take on a natural shine. For specific instructions in exceptional circumstances contact Samson Technologies.

### Performance Data

At 5kg/m<sup>2</sup> treatment at ambient temperature 20°C

#### Compressive Strength

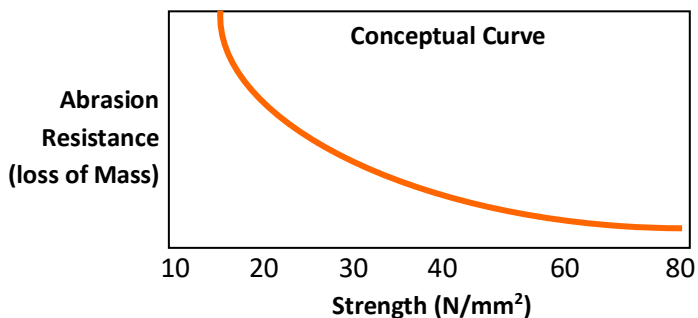
|          |                     |
|----------|---------------------|
| 24 hours | 15N/mm <sup>2</sup> |
| 48 hours | 30N/mm <sup>2</sup> |
| 7 days   | 60N/mm <sup>2</sup> |
| 28 days  | 70N/mm <sup>2</sup> |

#### Permeability

Tested under water pressure of 7 bars for 10 days treated concrete showed no water leakage.

#### Abrasion Resistance

Abrasion resistance of concrete is a function of its strength. **MBFT** displays superior abrasion resistance than normal 70N/mm<sup>2</sup> concrete.



### Packaging

**MBFT** is packaged in 25kg polylined, woven bags. Each bag will treat 4 to 8 square meters of concrete floor.

### Colours

**MBFT** is available in plain Portland, or tinted versions. Custom colours will be produced where volume required is viable.

### Shelf Life

The shelf life of **MBFT** is 9-12 months, properly stored in cool, dry conditions. If in doubt submit a sample to Samson Technologies c.c. for testing and approval before



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