

MONO DECKTOP 540

Dry shake quartz monolithic concrete floor hardener

Description

MONO DECKTOP 540 is a premixed dry shake floor hardener for concrete and screed floors. Monoshake is formulated from selected quartz graded aggregate, cement and special additives to provide a non-metallic, non-oxidising, dense and smooth surface with high abrasion and wear resistance.

Applications

- Parking areas.
- Workshops.
- Aircraft hangars.
- Warehouses.
- Service stations.

Advantages

- High resistance to wearing and abrasion.
- Easy to apply.
- Provides monolithic floor.
- Non metallic floor hardener.
- Premixed, ready to use.
- Reduces surface dust.
- Maintains the anti-static characteristics of the concrete surface.
- Compatible with concrete mixes regardless the type of water reducing admixture used (PC, Ligno or SNF).

CONCRETE LIMITATIONS

The following concrete limitations and properties should be considered to obtain hard concrete surface with high abrasion resistance:

- W/C ratio should be less than 0.5, Flocrete water reducing admixtures are highly recommended to achieve such water cement ratio.
- Recommended concrete slump between 75 mm to 120 mm.
- Cement content should be more than 300 kg/m³.
- Proper concrete compaction and leveling is a must.

Method of Use

- The right time to spread the Monoshake on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm.
 - Any bleed water still present should be removed.
- Spread two thirds of the required quantity of Monoshake

onto the concrete surface and allow the material to absorb moisture from concrete.

Technical Properties

Abrasion resistance*: At least 300%

Improvement over 25 MPa concrete using Taber abrader machine in accordance with ASTM D4060 fitted with H22 wheel, 1000 gr/ 1000 cycle

compressive strength: ≥ 65 MPa @ 28 days

(wet cure) mortar consistency ASTM C109/109M-02

Colour: Grey, buff, green & brick red

VOC: < 10 g/ltr

- First floating application should start, when a uniform dark colour appears (indicating material is wet). Either mechanical or manual floating can be used depending on area to be floated and the required finish.

- Apply the remaining quantity of Monoshake evenly and wait until material becomes wet (darker in colour) before floating.

- Use a power trowelling machine to make the final finish. Any wetting of the first or second application of Monoshake with water addition will affect the overall quality of the floor.

- Proper curing should be maintained to the floor surface as soon as the surface is set and is not be marred by the curing method. If surface sealing is thought to be necessary, two coats of Strongcoat 173 (epoxy clear floor sealer) or Strongcoat EC10 (epoxy floor coating) can be applied to provide further protection to concrete and steel surfaces.

- All expansion joints must be filled with an appropriate sealant. The saw cut construction joints may be filled with Strongcoat 104 flexible epoxy resin.

Timing Of Application

Timing of Monoshake application is critical. Adequate machinery, labor and material should be available to complete the whole area while sufficient concrete moisture is available.

•Applying Monoshake before or after the proper application time can seriously affect the quality of the concrete floor finish.

Application

MONODECKTOP 540 should be applied at the following rates: Normal rate 3 - 5 kg/m², Heavy duty floors 5 - 7 kg/m².

Cleaning: All tools should be cleaned with water immediately after use.

Packaging: **MONODECKTOP 540** is available in 25 kg bags.

Storage: **MONODECKTOP 540** has a shelf life of 12 months from date of manufacture if stored at dry conditions and temperatures between 2°C and 50°C.

If these conditions are exceeded, STARKE Technical Department should be contacted for advise.

Cautions

Health and Safety

As **MONODECKTOP 540** contains Portland cement, Monoshake may cause irritation to skin or eyes.

In case of accidental contact with skin or eyes, immediately flush with plenty of water and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

Fire: **MONO DECKTOP 540** is nonflammable.

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Concrete repair.

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