

# Emerishake S

Emery and quartz based dry shake monolithic concrete floor hardener



## Description

Emerishake S is a premixed dry shake floor hardener that provides an exceptional hard abrasion resistance for concrete and screed floors. Emerishake S is formulated from selected graded emery aggregate, cement and special additives to provide a non-oxidizing, dense and smooth surface with high abrasion and wear resistance.

## Applications

- ▲ Heavy industry.
- ▲ Parking areas.
- ▲ Warehouses.
- ▲ Workshops.
- ▲ Service stations.
- ▲ Aircraft hangars.
- ▲ Loading bays.

## Advantages

- ▲ High resistance to wearing and abrasion.
- ▲ Easy to apply.
- ▲ Provides monolithic floor.
- ▲ Non oxidizing floor hardener.
- ▲ Non-metallic, does not rust.
- ▲ Premixed, ready to use.
- ▲ Reduces surface dust, and resistant to oil and grease.

## 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/m<sup>3</sup>.
- ▲ Proper concrete compaction and leveling is a must.

## Method of Use

- ▲ The right time to spread the Emerishake S 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 Emerishake S onto the concrete surface and allow the

## Technical Properties:

Abrasion resistance:	At least 300 - 500%, improvement, compared to a conventional concrete
Wear resistance Böhme reading:	Class A6
Compressive strength: (wet cure) mortar consistency ASTM C109/109M-02	> 70 MPa @ 28 days
Hardness:	8 (Mohs scale)
Colour:	Grey, buff, green & brick red

- ▲ material to absorb moisture from concrete.
- ▲ 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 Emerishake S 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 Emerishake S 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 Emerishake S application is critical. Adequate machinery,

labor and material should be available to complete the whole area while sufficient concrete moisture is available.

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

## Application Rate

Emerishake S should be applied at the following rates:

Medium & Heavy duty floors 3 - 7 kg/m<sup>2</sup>.

## Cleaning

All tools should be cleaned immediately after finishing by water.

## Packaging

Emerishake S is available in 25 kg bags.

## Storage

Emerishake S 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, DCP Technical Department should be contacted for advise.

## Cautions

### Health and Safety

As Emerishake S contains Portland cement, Emerishake S 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

Emerishake S is nonflammable.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

#### Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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