

Emerishake

Emery based non-oxidizing dry shake floor topping



Description

Emerishake is a non-oxidizing, chemically inert, dry shake floor topping for monolithic floors. The product contains a blend of specially graded emery aggregates, additives and Ordinary Cements.

When trowelled into freshly laid concrete, Emerishake produces a dense, tough, abrasion resistant surface suitable for most industrial floors. The product is designed for application either by hand or using automatic spreading equipment.

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.
- ▲ Premixed, ready to use.
- ▲ Reduces surface dust, and resistant to oil and grease.

Standards

Emerishake complies with EN 13813, Class CT-C70-F10-AR1.

Base Concrete Limitations

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

- ▲ The compressive strength is recommended to be higher than 25 MPa.
- ▲ W/C ratio should be at a minimum required value to achieve fully compacted concrete.
- ▲ Concrete slump should be kept between 75 mm and 140 mm.
- ▲ Cement content should be no less than 300 kg/m³.
- ▲ Proper concrete compaction and leveling is a must.

Technical Properties:

| | |
|---|---|
| Colour: | Grey, buff, green & brick red |
| Abrasion resistance: (1000 g, 1000 cycle) ASTM D4060 weight loss using H22 wheel | At least 300 - 500% improvement, compared to a conventional concrete using Taber abrader machine |
| Wear resistance Böhme reading: | Class A6 |
| Maximum wear depth: BS EN 13892-4 | 0.07 mm |
| Flexural strength: BS EN 13892-2 | > 10 MPa |
| Compressive strength: BS EN 13892-2 (mortar consistency) | > 70 MPa |
| Hardness: | ≥ 8 (Mohs scale) |
| Aggregates composition: | Aluminum oxide: > 50% Ferric oxide: > 20% |
| VOC: ASTM D2369 | < 1 g/ltr |

- ▲ Should free water be present at the surface this should be allowed to evaporate or brushed away before the application of Emerishake.

Method of Use

- ▲ The right time to spread the Emerishake on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm.
- ▲ Broadcast the Emerishake evenly over the surface of the base concrete. Where manual trowelling is involved, application in two stages is recommended.
- ▲ The first stage should be to apply two thirds of the coverage rate of Emerishake, and allow the material to absorb moisture from concrete. When a uniform dark colour appears, indicating that the material is wet, Emerishake should be trowelled in, either by hand or using a power float (pan fitted with blades). Stage two is to apply the remainder of the coverage rate and to repeat trowelling. For large floor constructions Emerishake can be spread and trowelled satisfactorily in one stage by mechanical means.



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- ▲ Care must be taken not to wet the application of Emerishake with water addition not to affect the overall quality of the floor.
- ▲ Proper curing should be maintained and the surface is not to be marred by the curing method.

Timing of Application

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

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

Application Rate

Emerishake should be applied at the following rates:

Light to medium duty floors 3 - 5 kg per m².

Heavy duty floors 5 - 7 kg per m².

Cleaning

All tools should be cleaned immediately after finishing by water.

Packaging

Emerishake is available in 25 kg bags.

Storage

Emerishake 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 contains Portland cement, Emerishake 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 is nonflammable.

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- ▲ Flooring systems.
- ▲ Protective coatings.
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- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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