

Estotop SQ

Non-Metallic Dry Shake Surface Floor Hardener Compound for Fresh Concrete

Description

Estotop SQ is a ready to use, dry shake colour or natural grey floor hardener for concrete slab. It consists of hard wearing well graded silica quartz, Portland cement, plasticizing agents and strength promoters which enhanced abrasion and wear resistance.

Estotop SQ cures monolithically to provide a dense, non-porous surface, which is extremely hard wearing and abrasion resistance.

Estotop SQ has been tested by SIRIM BHD, In accordance to ASTM D 4060 – 01 on Abrasion Resistance of Organic Coatings Test, MOH's Hardness Test, and complied with the specification in this data sheet.

Uses

Estotop SQ is superficial reinforcing of floor slabs and screeds where good abrasion resistance and reduced dusting is required.

Estotop SQ is suitable and widely been used for floors subjected to severe mechanical wear or heavy traffic, e.g.

- Breweries / Heavy industry
- Agricultural buildings
- Warehouses / Workshops
- Loading bays / Parking lots
- Service station / Garage

Advantages

- Reduces dusting
- High resistance to abrasion
- Improves resistance to impact
- Improves resistance to oils and greases
- Easy to apply
- Saves time and labour costs by eliminating the need for a granolithic screed
- Intrinsic colouring
- Monolithically bond with fresh concrete base

Standards Compliance

- **ASTM D4060**
- **MOH's Hardness**

Physical Properties

| | |
|---|-------|
| Abrasion Resistance, Weight Loss after 1000 Cycles (g) ASTM D4060 | < 2.3 |
| MOH'S Hardness, MOH's Scale | 7 – 8 |

* The aggregates used in Estotop SQ have a hardness value of 8 on MOH's scale.

Application Instructions

Base Concrete

The base concrete shall be Grade 25 or higher with a workable on-site slump (slump to be determined by the Engineers)

The base concrete shall be laid and compacted in accordance to good concrete practice with particular attention to bay edges and corners. Care should be taken to ensure that the slab is laid to obtain an accurate finished profile and only minimum laitance is build up.

Application

Estotop SQ shall be broadcasted over the fresh but stiff concrete or screed and should be marked into bays to ensure an even distribution of material. It should be applied after all bleeding has ceased and after removal of bleeds water. To ensure a low w/c ratio on the concrete slab, application of hardener should only commence when the concrete can bear the weight of a person standing on it, resulting in the heel depression of not more than 5mm on the surface.

When **Estotop SQ** is applied too early, the hardener will absorb too much water and this may affect its abrasion resistance performance. On the other hand, if application is done too late, there will be insufficient moisture from the concrete to complete the hydration process of **Estotop SQ**. As a result, the floor may "craze and pit".

Estotop SQ shall be applied in two operations. The 1st shake shall consist of 2/3 of the total quantity specified. Broadcast evenly over the marked area. Once the material is uniformly moistened, compact the floor with a low-speed mechanical trowel. When completed, the remaining 1/3 of **Estotop SQ** is immediately broadcasted over the floor at a direction perpendicular to the first application. The floor is compacted again using a mechanical trowel when the **Estotop SQ** is uniformly moistened. Precaution must be taken to ensure that the floor is not overworked.

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Curing

The applied **Estotop SQ** must be protected to prevent rapid water loss, which may result in surface cracks. Immediately after final trowelling, spray Estocure WB curing compound over the floor at a rate of 0.2 litres per m².

Protection

No traffic should be allowed into a newly laid floor for 48 hours. Heavy traffic shall be avoided for approximate 2 weeks. The main contractor shall take necessary steps to protect the finished floor from damaged by other trades.

Packing & Size

| | |
|-------------------|---|
| Estotop SQ | 25 kg bag |
| Colour | Natural, Green & Red (other colours are available upon request) |

Coverage

| | |
|-------------------|-----------------------------|
| Estotop SQ | 4 – 6 kg per m ² |
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Technical Support

Denka offers a comprehensive range of high performance, high quality of product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estotop SQ should be stored on pallets in dry conditions. Under these conditions the product will have a shelf life of 12 months.

If stored in extreme heat locations the shelf life may be reduced.

Precaution

Estotop SQ contains cement powder, which might be harmful to sensitive skin. In case of contacted with eyes, immediately rinse with water and seek medical advice.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



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