Estotop NF9 Metallic

Non-Ferrous Metallic Floor Hardener

Description

**Estotop NF9 Metallic** is a series of quality controlled factory blended products containing proprietary blends of Portland cement, specially selected and graded metallic aggregates, plasticizing agents and special additives to enhance abrasion and wear resistance and improve workability.

**Estotop NF9 Metallic** provides a hard wearing, abrasion and impact resistant monolithic concrete surface when applied by the shake-on method.

**Uses**

**Estotop NF9 Metallic** is superficial reinforcing of floor slabs and screeds where good abrasion resistance and reduced dusting is required.

**Estotop NF9 Metallic** is suitable and widely been used for industrial areas subjected to severe mechanical wear or heavy traffic, e.g.

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

**Advantages**

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

**Standards Compliance**

- BS 4551
- ASTM D4060
- MOH’s Scale Hardness

**Physical Properties**

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<tr>
<th></th>
<th>Estotop NF9 Metallic</th>
<th>G 25 Concrete</th>
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</thead>
<tbody>
<tr>
<td>Abrasion Resistance, ASTM D4060 – 01 Weight lost after 500 cycles (g)</td>
<td>&lt; 1.80</td>
<td>3.40</td>
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<tr>
<td>MOH’S Hardness, Mohs scale</td>
<td>8</td>
<td>2</td>
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*The aggregates used in Estotop NF9 Metallic have a hardness value of greater than 9 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 that laitance build up is minimal.

**Application**

**Estotop NF9 Metallic** 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 bleed water. To ensure a low w/c ratio on the concrete slab, application of floor 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 NF9 Metallic** 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 NF9 Metallic**. As a result, the floor may “craze and pit”.

**Estotop NF9 Metallic** 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 NF9 Metallic** 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 NF9 Metallic** is uniformly moistened. Precaution must be taken to ensure that the floor is not overworked.
Curing

**Estotop NF9 Metallic** surface must be treated 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 m$^2$.

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.

High Performance Floor

In particularly aggressive environments, where the abrasion resistant of the highest order is required, consideration should be given to the use of **Estotop NF9 Metallic**, where Dynagrip emery based aggregate (hardness value of 9 on Mohs scale) is used.

Packing & Size

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<thead>
<tr>
<th><strong>Estotop NF9 Metallic</strong></th>
<th>25 kg bag</th>
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<tbody>
<tr>
<td>Colour</td>
<td>Neutral, Green &amp; Red (other colours are available upon request)</td>
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Coverage

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<tr>
<th><strong>Estotop NF9 Metallic</strong></th>
<th>4 – 6 kg per m$^2$</th>
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Technical Support

Estop 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 specifies, end-users and contractors, as well as on-site technical assistance.

Storage

**Estotop NF9 Metallic** 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 NF9 Metallic** 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

Estop manufactures and 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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**Important Note**

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.