

## Estotop Emery

### Emery Base Monolithic Surface Floor Hardening Compound

#### Description

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

DYNAGRIP is an extremely hard, chemically inert aggregate which resists polishing, therefore providing a non-slip, skid resistant surface even when wet.

**Estotop Emery** provides an extremely hard wearing, abrasion and impact resistant monolithic concrete surface with non slip characteristics when applied by the shake-on method at the recommended application of 4-6 kg/m<sup>2</sup> depending on requirement.

#### Uses

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

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

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

#### Advantages

- Extremely strong, hard wearing surface
- Extremely high resistance to abrasion and Impact
- Contains DYNAGRIP – hard wearing aggregate which meets the requirement Al<sub>2</sub>O<sub>3</sub> in emery content greater than 65
- Excellent non slip properties
- Monolithically bond with fresh concrete base
- Non-metallic chemically inert aggregate will not rust when wet
- Resistant to oils and greases
- Easy and economical to apply

#### Standards Compliance

- **BS 4551**
- **ASTM D4060**
- **MOH's Scale Hardness**

#### Product Performance

	<b>Estotop Emery</b>	G25 Concrete
Abrasion Resistance, ASTM D4060 – 01 Weight lost after 500 cycles (g)	1.10	3.40
MOH's Hardness, MOH's Scale	> 9	2

\* Dynagrip emery-based aggregates have a hardness value of 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 Emery** shall be broadcasted over the still 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 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 Emery** is applied too early, too much water will be absorbed by the hardener 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 Emery**. As a result, the floor may "craze and pit".

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**Estotop Emery** shall be applied in two operations. The 1<sup>st</sup> 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 Emery** 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 Emery** is uniformly moistened. Precaution must be taken to ensure that the floor is not overworked.

### Curing

**Estotop Emery** 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<sup>2</sup>.

### 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

<b>Estotop Emery</b>	25 kg bag
Colour	Neutral, Green & Red (other colours are available upon request)

### Coverage

<b>Estotop Emery</b>	4 – 6 kg per m <sup>2</sup>
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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 specifies, end-users and contractors, as well as on-site technical assistance.

### Storage

**Estotop Emery** 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 Emery** 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 product, 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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