Floorcrete Emery
Emery Base Monolithic Surface Floor Hardening Compound

Description
Floorcrete 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.

Floorcrete 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/m² depending on requirement.

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

Floorcrete 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 Al₂O₃ 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

Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>Floorcrete Emery</th>
<th>G25 Concrete</th>
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</thead>
<tbody>
<tr>
<td>Abrasion Resistance, ASTM D4060 – 01 Weight lost after 500 cycles (g)</td>
<td>1.10</td>
<td>3.40</td>
</tr>
<tr>
<td>MOH’s Hardness, MOH’s Scale</td>
<td>&gt; 9</td>
<td>2</td>
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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

Floorcrete 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 Floorcrete 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 Floorcrete Emery. As a result, the floor may “craze and pit”.

Floorcrete Emery 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 Floorcrete 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 Floorcrete Emery is uniformly moistened. Precaution must be taken to ensure that the floor is not overworked.

Curing

Floorcrete Emery surface must be treated to prevent rapid water loss which may result in surface cracks. Immediately after final trowelling, spray Easy Fix curing agent 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.

Cleaning of Tools

Floorcrete Emery should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Packing & Size

<table>
<thead>
<tr>
<th>Floorcrete Emery</th>
<th>25 kg bag</th>
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<tbody>
<tr>
<td>Colour</td>
<td>Natural, Green &amp; Red (other colours are available upon request)</td>
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</table>

Coverage

| Floorcrete Emery | 4 – 6 kg per m² |

Technical Support

Easy-Fix Technical Service Department is available to assist you in the correct use of our products.

Storage

Floorcrete 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

Floorcrete 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.

Important Notes:

This information in this catalogue is provided to the best of our knowledge from results gathered both internal and external credited laboratories. However, we have no control over site applications, site conditions and workmanship of the applicator. We therefore will not accept any liability, either directly or indirectly arising from the misuse of these products or when the product is used not in accordance with any advice, specification, and recommendation of information given by us, the user is responsible for checking the suitability of these products for its intended use.