KEM FLOOR S
Concrete Surface Hardener and Dust Proofer
Ref. FL/FH-V2-0814

Description
KEM FLOOR S is an aqueous solution of sodium silicate modified with wetting agents and other additives. The blended active ingredients chemically react with the free lime in the concrete producing hard insoluble salts sealing, dust proofing and hardening the floor surface in one operation.

Uses
KEM FLOOR S is a multi application concrete treatment for interior or exterior application. It can be used over new fresh or cured concrete and can be used over old concrete cleaned floors. It hardens also improves the abrasion resistance of concrete floors and seals the surface against the penetration of oils, chemicals and chlorides.

Advantages
- It is an aqueous odour free sealer.
- It can be used as a concrete curing and surface dust proofing compound. It leaves no residue, dries in few hours time and can be applied in one or several coats application.
- It is economical and can be diluted with water.
- It penetrates concrete or cementitious floor screeds in depth and does not produce a surface membrane.
- After installation and drying of 28 days it can receive surface adhesives and can be tiled.
- Suitable for use on terrazo tiles but may not have enough penetration, more than 2 applications may be required.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density @ 25°C</td>
<td>1.2 kg/l</td>
</tr>
<tr>
<td>Solid Content</td>
<td>24%</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>35% increase in abrasion resistance compared to C 25 concrete</td>
</tr>
</tbody>
</table>

Chemical Resistance
The product is not intended for chemical exposure.

Efficiency when used as curing compound: Kem Floor S will controls loss of moisture from concrete. The amount of water loss will be slightly more than that specified in ASTM C – 309 when tested as per ASTM C – 156, but less than that of concrete without Kem Floor S.

Direction for Use

Substrate Preparation
Fresh concrete: The concrete must be prepared by suitable power or manual floating/tamping techniques.

Old concrete: The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water or abrasive blast cleaning equipment.

All dust, dirt, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and / or vacuum.

Using the dilution rates shown KEM FLOOR S should be applied by watering can and spread over the surface with a brush or squeegee and kept moving until absorption is no longer evident. Any excess solution should be drained off leaving a dry surface. Second and third coats should be washed with water to remove any solution which has not been absorbed. This solution normally be done 12-24 hours after the final application but in hot weather should be done earlier.

Clean all equipment with water immediately after use. Contact with glass, metal, paintwork or clothing should be avoided. The minimum over coating time is 24 hours.

Coverage

<table>
<thead>
<tr>
<th>Surface Type</th>
<th>Coverage m²/ltr of undiluted KEM FLOOR S</th>
<th>Coats</th>
<th>Dilution rate by Vol. KEM FLOOR S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Concrete</td>
<td>4 to 8</td>
<td>1</td>
<td>1-2 1st Coat 1-2 2nd Coat</td>
</tr>
</tbody>
</table>

Note: Coverage depends on the porosity of the substrate.
Packaging

KEM FLOOR S is available in 20 and 200 kg containers

Precautions

Cleaning: All equipments must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

Storage and Shelf life

Storage: Stored in dry conditions at moderate temperature and humidity. Protect the product from frost.

Shelf Life: 12 months

Fire resistance: The product is not flammable.

Health & Safety

KEM FLOOR S is non-toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Limitation of Liability:

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or he verification of details given herein.