Description

FeRFA Type 3

EpoCoat HB is a solvent free, high build epoxy resin floor and wall coating developed to provide protective and decorative properties to concrete, steel and other substrates. EpoCoat HB is an easily applied chemical and abrasion resistant coating giving a coloured gloss finish.

EpoCoat HB is also available in a fast cure version (EpoCoat HB FC) and EpoCoat HB SR which is a slip resistant version of EpoCoat HB, retaining all the benefits of the standard product but incorporating fine aggregates within the coating system to give a lightly textured finish to the cured product.

Typical Areas of Usage

- Chemical Bunds
- Food Processing
- Electronics Assembly
- Warehousing
- Factories
- Workshops

Available Colours

EpoCoat HB is available in a range of 12 standard colours, other RAL and British Standard colours are available upon request. As with other epoxy products light colours exposed to UV light will be prone to cosmetic yellowing of the surface.

Advantages

- Fast application
- Solvent Free
- Hygienic and easy to clean
- Very good chemical resistance
- Excellent adhesion to concrete
- Seamless floor finish

Technical Data (after 28 Days @ 20°C)

<table>
<thead>
<tr>
<th>Property</th>
<th>EpoCoat HB</th>
<th>EpoCoat HB FC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Shore D Hardness</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>Bond Strength</td>
<td>&gt; 1.50 N/mm² (Concrete Failure)</td>
<td>&gt; 1.50 N/mm² (Concrete Failure)</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>40 mg (CS 10/1000/1000)</td>
<td></td>
</tr>
<tr>
<td>Slip Resistance Pendulum Test to BS 7976-2</td>
<td>Dry &gt;55</td>
<td>Wet and anti slip finish consult KDR technical department</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt; 100g/l</td>
<td>Based on a fully mixed unit</td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Excellent general chemical resistance for specific reagents contact KDR technical department</td>
<td></td>
</tr>
</tbody>
</table>

Curing Schedule (@ 20°C)

<table>
<thead>
<tr>
<th></th>
<th>EpoCoat HB</th>
<th>EpoCoat HB FC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>20 mins</td>
<td>15 mins</td>
</tr>
<tr>
<td>Pedestrian Traffic</td>
<td>16 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>Light Wheeled Traffic</td>
<td>24 hours</td>
<td>24 hours</td>
</tr>
<tr>
<td>Full Traffic</td>
<td>7 Days</td>
<td>4 days</td>
</tr>
<tr>
<td>Full Cure</td>
<td>7 Days</td>
<td>7 days</td>
</tr>
</tbody>
</table>

NOTE: At lower temperatures the above cure times will be increased.

Surface Preparation

To be assured of maximum adhesion and properties from KDR’s resin products the correct surface preparation is essential. The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 75% RH.

The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². The surface must be clean, dry and free of contaminants such as dirt, oil, grease, coatings and surface treatments. If in doubt, apply a test area first. Concrete substrates should be mechanically prepared using vacuum enclosed abrasive blast cleaning or diamond grinding equipment to remove laitance and previous surface treatments leaving an open textured surface.

Weak concrete must be removed and repaired using recommended KDR products.

Mixing

A two coat application generally does not require a primer however on exceptionally weak or porous substrates EpoPrime should be applied at a coverage rate of 0.25kg per m² and be allowed to cure for a minimum of 12 hours and a maximum of 36 hours prior to the application of the coating system.

Pour the contents of the part B container into the part A container and thoroughly mix using a slow speed mixing drill for a minimum of five minutes until the material forms a uniform colour and consistency. Never mix by hand.
Application

Apply by brush and short/medium piled roller at a nominal rate of 0.25kg/m². After a minimum of 16 hours and before a maximum of 48 hours, apply a second coat at the same coverage rate and a minimum of 6 hours and no later than 24 hours after the first coat has cured for EpoCoat HB FC. The first coat must not be contaminated prior to applying the second coat.

Should a heavy non-slip finish be required, a suitable aggregate should be scattered onto the first coat of the EpoCoat HB whilst still wet. The following day, any excess aggregate should be swept from the surface using a clean brush prior to application of the second coat. A further coat may be required to obtain an even finish.

The ambient temperature of the works area should be a minimum of 15°C during the application and curing period, if not adhered to this can affect the colour and appearance of the system.

Materials and substrate temperature must be above 10°C.

Packaging

EpoCoat HB is supplied in 2.5kg, 5kg, 10kg, 15kg and 25kg units.

Coverage

Approximately 4m² per Kg. Coverage is dependant on surface profile, texture, porosity and substrate temperature.

Storage

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.

EpoCoat HB has a maximum of twelve months shelf life when stored in the original, unopened containers.

Health & Safety

Avoid contact of the material with skin and eyes. Wear appropriate gloves, overalls and eye protection during use. Please refer to material safety sheet for additional information. For specific advice regarding any aspect of this product, please consult our technical section.

General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use.

Accordingly, all recommendations and suggestions are made without guarantee. Specific installation advice can be provided upon request.

Please consult our Sales Department to confirm that this Data Sheet is the current issue.

Limitations

- Product should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used.
- Protect the installed floor from damp, condensation and water for at least twenty-four hours at 20°C.
- Ensure that the ambient temperature remains above 10 degrees C for at least twenty-four hours after installation.
- EpoCoat HB is NOT UV stable. Yellowing will occur under UV exposure.
- The substrate and uncured floor must be kept at at least 3 degrees C above the dew point to reduce the risk of condensation or blooming on the surface.
- If the works area requires heating, before and during application and until full cure of the material system is attained do not use paraffin, oil, gas of fossil fuel heaters as they produce water vapour and carbon dioxide which adversely affects the floor finish. Use only electric powered or indirect warm air systems.

Equipment Cleaning

Clean all equipment immediately after use with KDR ToolClean.