BETEC® Flex S150

Two-component, flexible, cementitious coating for waterproofing/damp-proofing of new and existing structures

Product Description

BETEC® Flex S150 is a flexible, two-part, polymer-modified cementitious waterproofing system. The two components of BETEC® Flex S150 are mixed together with a slow speed drill and paddle to form a smooth slurry. The slurry is applied by trowel or brush, in two coats, to form a hard but flexible waterproof cementitious coating.

BETEC® Flex S150 can be applied onto damp substrates, internal and external wet areas. The cured membrane is flexible, durable, weather-resistant, and has excellent adhesion to most substrates.

Applications

- Floor, basement wall and slab
- Swimming pool, water feature
- Bathroom, balcony, wet area and planter box
- Water-retaining structure
- Parking deck
- Sealing pre-cast joint

Product Advantages

- Resists both positive and negative pressure
- Flexible – will bridge drying shrinkage and hair line cracks
- Seals lightweight aerated blocks and pre-cast joints
- Excellent adhesion to concrete, masonry, ceramics, and most common substrates and does not attack metal
- Non-toxic
- Able to take foot traffic when cured
- Direct plaster or screed without affecting bond

Typical Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TYPICAL VALUE</th>
<th>TESTING METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>≥ 1.8N / mm²</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Elongation</td>
<td>≥ 200%</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Adhesion to Concrete</td>
<td>≥ 1.2N / mm²</td>
<td>ASTM D4541</td>
</tr>
<tr>
<td>Crack Bridging Capability up to 2mm</td>
<td>Pass</td>
<td>ASTM C836</td>
</tr>
</tbody>
</table>
No Crack after 10 Cycle of Stretching and Closing at 1mm Width

Typical test values represent average values from samples tested in recommended conditions. Refer to Technical Letter 1 for more information.

Supply

<table>
<thead>
<tr>
<th>Pack Size</th>
<th>42kg set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder Component</td>
<td>25kg</td>
</tr>
<tr>
<td>Liquid Component</td>
<td>17kg</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>12 months storage in dry condition</td>
</tr>
</tbody>
</table>

Cleaning

All tools and equipment should be cleaned immediately with clean water after use. Hardened material can only be removed mechanically.

Installation

Surface Preparation

- Chase out all holes and voids and fill with appropriate Mortar from GCP Applied Technologies to provide a smooth and level surface; mortar joints should be flush pointed.
- Remove all bitumen, oil, grease, dirt and other surface contaminants by wire brushing and pressure washing. Cut back any protrusions.

Mixing

- Shake the liquid well and pour around 75% into a clean mixing container.
- Slowly add the BETEC® Flex S150 Powder while mixing.
- Mix until a homogenous slurry, free from all lumps, is formed.
- Scrape any unmixed material from the side of the mixing container with a trowel and mix in.
- Finally, add the appropriate amount of the remaining liquid to achieve the required consistency for application.
- DO NOT USE PART MIXES. DO NOT ADD WATER, CEMENT, SAND OR OTHER MATERIALS.
- It is recommended that mechanical mixing (400 to 500rpm) should be used for 2 to 3 mins to ensure proper dispersion of the components.
- Pre-wet the surface with clean water. Do not allow pooling or ponding.
- Apply the first coat of BETEC® Flex S150 mixed materials onto the prepared surface using a brush, trowel, squeegee or roller in a stifling action.
Apply the second coat finish depending on site conditions and film thickness required.
Before applying the second coat in alternate direction, leave the first coat to dry for approximately 2 to 4 hours depending on the thickness.
If overcoating is done more than 24 hours after applying the previous coat, or the previous coat has already dried out, the surface must be pre-wetted again.

Coat Thickness and Consumption

<table>
<thead>
<tr>
<th>Thickness per coat</th>
<th>0.6mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coat consumption (min 2 coats)</td>
<td>Approx. 24m²</td>
</tr>
<tr>
<td>Consumption of 2 coats (kg/m²)</td>
<td>Approx. between 1.5kg and 1.7kg depending on substrate condition</td>
</tr>
</tbody>
</table>

Technical Services

For assistance with working drawings for projects and additional technical advice, please contact GCP Applied Technologies.

Health and Safety

BETEC® Flex S150 is classified as non-hazardous. Read the product label and Material Safety Data Sheet before use. Protect hands with rubber gloves. Avoid contact with eye and skin. In case of contact, wash immediately and thoroughly with water and seek medical advice.