BETEC™ Flex S150

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

SINGAPORE GREEN BUILDING PRODUCT SGBC LEADER SGBP 5383

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 is a non-exposed system that can be applied onto damp non-moving substrates, internal and external wet areas. The cured membrane is flexible, durable and has good adhesion to most substrates.

Applications

- Non-chlorinated Swimming Pool (unless the membrane is protected by chlorine-resistant protection screed as well as chlorine-resistant tiles adhesive)
- Bathroom, balcony, wet area and planter box
- Non-chlorinated water-retaining structure

Product Advantages

- Flexible - bridge hair line cracks
- Good adhesion to concrete, masonry, ceramics, and most common substrates and does not attack metal
- Non-toxic
- Direct plaster or screed without affecting bond

Typical Properties

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

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

Supply

Pack Size	42kg set
Powder Component	25kg
Liquid Component	17kg
Shelf Life	12 months storage in dry condition

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.
- The substrate shall be sound and stable with zero substrate movement. Do not apply cementitious over joints or non-core filled reinforced blockwork.
- 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

- Minimum 2 coats for internal wet areas
- Minimum 3 coats for non-chlorinated water retaining structures
- Minimum consumption 2Kg/m^2

(Number of coats and consumption is dependent on the substrate porosity)

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.

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gcpat.sg/solutions/products/betec-grouts-and-cementitious-mortars/betec-flex-s150