

PC Bond Flex



Single component acrylic based waterproofing slurry coat

Product Overview

PC Bond Flex is a single component, white colored acrylic co-polymer based liquid which when mixed with cement forms a cementitious bonding slurry coat which has increased resistance to water penetration, abrasion and increased durability.

Areas of applications

1. Terrace, balconies and all kinds of flat and sloping roofs.
2. All kinds of pools, fountains, tanks and water retaining structures.
3. As bonding slurry coats, render key coats and patch repair mortars.

Properties

1. PC Bond Flex gives a UV resistant waterproofing membrane.
2. PC Bond Flex reduces the requirement of Water by lowering water-cement ratio.
3. It is easy to use and can be applied with a brush over horizontal and vertical walls.
4. It is non-flammable and non-toxic.
5. It is resistant to chlorides, sulphates, fungal and algal growth.
6. It exhibits excellent adhesion to various types of substrates, resistance to abrasion and harsh weather conditions.

Guidelines for Usage

1. Surface preparation: Before application of PC Bond Flex, make sure that all the surfaces are sound, clean and free from all dust, loose particles and contaminants. The surfaces should be free from oil, grease and laitance. Use wire brush or mechanical means to remove. The surface has to be dampened with water. Ensure no standing water should be present.

2. Mixing: Mix PC Bond Flex and cement in the ratio of **1:2** by volume to a lump free creamy consistency. In the beginning take PC Bond Flex in a clean mixing container. To it add cement slowly. Simultaneously mix the entire contents with a mixing paddle at a slow speed. It is advised to mix only that amount of material which can be used within 30 minutes.

3. Application: Using a brush or broom, apply the mix within 30 minutes.

3.1. As waterproofing slurry coat:

Primary coat: Apply a scratch coat over the prepared substrate. Ensure that the mix spread should not be too thin in thickness. When the material begins to drag/scale/ball, then don't add more water but instead dampen the substrate again. All the first coat to dry and cure for overnight.

Secondary coat: Damp the first coat. Then using cross coat technique, apply the second coat over the primary coat in opposite direction of application of the primary coat. Bring it to a smooth trowel finish.

3.2. As top coat: It is optional and recommended for permanently submerged conditions or highly exposed conditions.

Top coat is prepared by sprinkling suitable grade of quartz sand over the secondary coat of waterproofing slurry coat while its tacky or sticky.

In case of a new substrate, follow surface preparation method as prescribed above. Then prepare top protection coat by mixing cement, sand, PC Bond Flex and water in the ratio of **1:2:1:0.5** by volume. Mix uniformly. Apply using a trowel to the required thickness.

3.3. As repair mortar: In order to prepare repair mortar, mix PC Bond Flex , cement and quartz sand in the ratio of **1:5:15** by weight. Add required amount of water (not more than 30% by weight of cement) in order to achieve a smooth trowelable consistency. Use it for filling cracks, repairing damaged substrates and coving at the corners.

4. Curing: Curing of treated surface is very important. Moisture cure the surface for 24 hours and allow it to dry naturally.

Dosage and Measures

On a fair faced concrete, 1 mm thick polymer modified waterproof slurry shall require 0.6 - 0.8 kg of polymer per m². Moreover the consumption depends on application and the profile of the substrate.

Packages available

PC Bond Flex is available in 25 kg HDPE buckets and 225 kg HDPE drums.

Storage and Shelf life

Should be stored in a dry, undamped, unopened, undamaged, away from sunlight with original packaging, at a minimum temperature of 7°C. Its shelf life is 12 months when stored under proper conditions.

Safety Measures

1. Tools used for the application should be cleaned with water as long as the product is wet. Once the product is dry, the tools need to be cleaned with mechanical means.
2. Appropriate safety and health precautions are advised (e.g. wearing safety rubber hand gloves, safety shoes and goggles, avoiding contact with skin and eyes, etc.).

For further queries please contact Mcrete® Technical Representative.

Technical data

Aspect	Milky White Liquid
Density	1.01 g/cc
% of solids	(27-29) %
pH	9 ± 1
Properties of slurry mix	
Mixing ratio (cement: sand)	2:1
Density	1.7 - 1.9 g/cc
Recoatable (depending on weather conditions)	6-12 hours

For further clarifications Please contact on below address

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