



Since 2009

BOND SHIELD

Shield 405



SHIELDING YOUR STRUCTURES

Technical Data-sheet

It's Our Business to Protect Your Structure.

Advantages of BondShield:

- A **Safeguard** of water seepage.
- It has significantly **higher elongation**
- The Shield-405 has excellent **CO2 diffusion** resistance.
- Prevents the **corrosion of rebar** within the concrete matrix, leading to superior structural protection.
- Shield-405 provides excellent **resistance to growth of algae** and fungi on the walls.
- **Low VOCs**, environmentally friendly and low odor.
- Good Tensile strength.
- Excellent Alkali and Water Resistance.

Appearance:

Components:

- Component A: Grey premix powder.
- Component B: Quartz premix powder
- Component C: Milky liquid

Packaging:

Powder Component – 20 Kg

Powder Component – 15 Kg

Powder Component – 10 Kg

Warranty:

- Shield-405 comes with **20-year waterproofing** and performance, warranty when applied with Concrete Gum-Shield.

Description:

BondShield is a high-performance, polymer-modified, Cementitious adhesive. Special for the roof top waterproof leveling. Its is specially manufactured with anti-carbonation properties, provide long lasting durability, significantly elongation, tensile strength and water resistance in severest climatic conditions.

Recommended Uses:

- ◆ Rooftop surface leveling
- ◆ Waterproofing layer
- ◆ Waterproof tile adhesive application

How to Apply:

- ◆ Substrates must be sound and level,
- ◆ The surface free from protrusions, large pores, honeycombs, large gaping cracks, and ridges,
- ◆ Concrete substrates should be cured fully before Concrete GumShield application.

Surface Preparation:

All substrates must be sound and free from dust, excess mortar, oil or other loose particles. Cracks or honeycombs shall be repaired using Concrete GumShield and then apply primer coat LatexShield, Ratio:- LatexShield : Water : Cement =1:4:7.

BOND SHIELD PRE STEPS:

- ⇒ Plaster/Smooth Concrete Surface: New masonry surfaces must be allowed to cure completely. It is recommended to allow 21 days as the curing time for new masonry surfaces.
- ⇒ CLEANING: The surface should be free from any loose paint, dust or grease. Growths of fungus, algae or moss should be removed by wire brushing and water and for the floor cleaning using Diamond cup Grinding Machine.

Mixing:

BondShield is packed, ready to use in 3 components. Shield-405 is supplied in precisely proportioned units ready for mixing. Always put the liquid mixture in a clean mixing container, and slowly add the powder component



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Recommended Coverage:

1. Area 100 SFT per 15 kg Thickness 1mm.

Curing:

- For maximum protection, allow 12 hours curing time before second coat.

Tensile Strength:

1.2 MPa

Elongation:

30-35%

For Best Performance:

- ◆ Do not apply at temperatures

Shelf Life:

6 months when properly stored.

Storage:

Store under cover, in dry and cool place with temperature not accessing +35°C. Protect from freezing.

Application Temperature:

5 °C – 40 °C

below 4° above 45°.

- ◆ Do not dilute with water more than 50%.
- ◆ Do not use additives of any kind.
- ◆ Do not apply thicker than 25 mm.
- ◆ Proper application is the responsibility of the user.

Application Process:

BondShield is a super waterproof adhesive for rooftop leveling and Tile adhesive. The application is easy by a wiper must be done with two coats. After a LatexShield Coat, we can apply BondShield. Mix water 40% to 45% in it. The 2nd coat in a direction perpendicular to the 1st coat. Leave the 1st coat to set between 12 hours before applying the 2nd coat.

Health & Safety Precautions

- ◆ Avoid contact with skin and eyes. Any splashes to the skin or eyes should be washed off with clean water.
- ◆ Wear protective gloves and eye protection when applied.

Test Data

<u>Property</u>	<u>Results</u>
01. Adhesion to Concrete	1.2 Mpa
02. Tensile Strength	1.4 Mpa
03. Elongation	30-35%
04. Water Absorption	0%
05. Waterproofing	Pass: Resisted 20 ft

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.



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