



# HIPPO BOND

— Tile & Stone Solutions —

## **H-16 Bitu Guard Black Waterproofing Liquid Membrane Data Sheet**

### **Description**

- Bitu Guard Black Waterproofing Liquid Membrane is a polymer modified, single component liquid waterproofing coating designed for direct cold application.
- It forms a seamless protective membrane that safeguards concrete and masonry structures against moisture penetration and chemical attack.
- The product creates a durable waterproof layer that helps resist chloride and sulphate ions present in soil and water.

### **Advantages**

- Ready-to-use cold applied coating no pre-heating required.
- Creates a seamless and joint-free waterproof membrane.
- Acts as a vapour barrier and corrosion resistant layer.
- Protects concrete structures and foundations from chemical attack.
- Good adhesion to various construction surfaces.
- Simple brush or roller application.



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## Method Of Application

### Surface Preparation

- Ensure the substrate is clean, sound, and free from dust, oil, grease, or any loose contaminants before application.
- The surface may be slightly damp, however standing or excessive water should not be present.
- Prepare a primer coat by diluting Bitu Guard Black Waterproofing Liquid Membrane with clean water.
- Mix 1 kg of Bitu Guard Black Waterproofing Liquid Membrane with approximately 1 litre of water to obtain the primer solution.
- Apply the prepared primer evenly over the properly prepared surface before proceeding with further coating layers.

### Application

- After the primer layer has dried completely, apply two coats of Bitu Guard Black Waterproofing Liquid Membrane over the prepared surface. The second coat should only be applied once the first coat has fully cured to ensure proper film formation and performance.
- For enhanced strength and durability of the waterproofing system, it is recommended to embed glass fibre reinforcement into the first coat while the coating is still wet.
- To achieve suitable workability and proper coverage, Bitu Guard Black Waterproofing Liquid Membrane may be diluted with clean water as required. Typically, the first coat can be diluted by 15–25%, while the second coat may be diluted by 10–15% depending on application conditions.
- All brushes, rollers, and application tools should be washed with clean water immediately after use to prevent the material from drying on the equipment.



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## Technical Information

### Physical Properties

Properties	Result
Physical Appearance	Blackish paste form
Solid Content	Min 50%
Viscosity	45,000 – 55,000 Cps
Specific Gravity	0.99 to 1.04
Brushing	Easy to brush
Water Solubility	Should be soluble

### Performance Properties

Properties	Result
% Elongation (ASTM D 412)	> 300%
Tensile Strength (ASTM D 412)	1.05 N/mm <sup>2</sup>
Tear Resistance (ASTM D 2794-93)	15 KN/M
Tensile Strength Recovery (ASTM D 2370)	Min 95%
Crack Bridging Ability (ASTM C 836)	> 3 mm
Permeability (S 2645-1975)	Nil
Bond strength (ASTM D 4541)	1.5 Kg/cm <sup>2</sup>
Coverage a) Primer coat b) Cementitious surface	7-9 mtr <sup>2</sup> / Kg 3-4 mtr <sup>2</sup> / Kg / 2 coat



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## Uses

- Suitable for use as a protective coating on concrete surfaces, brick foundations, retaining walls, timber, and metal substrates.
- Can be used as a sandwich membrane system in new construction projects as well as a protective surface treatment for existing concrete slabs.
- Designed for waterproofing and protection of structural elements such as slabs, columns, beams, and other concrete components.

## Precautions

- Do not mix or dilute Bitu Guard Black Waterproofing Liquid Membrane with solvents. Only use clean water if dilution is required.
- After application, the waterproofing layer should be protected with a suitable screed or protective layer to avoid mechanical damage.
- Before applying the primer, ensure the substrate is in a Saturated Surface Dry (SSD) condition, meaning it should be moist but free from standing water.



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## Packaging

- Available in 20 Kgs.

## Shelf Life

- 12 months seal pack in ideal storage conditions.



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## Areas Of Application

Areas	Application
Basement	Yes
Retaining Walls	Yes
Roof Slabs	Yes
Concrete	Yes
Brick Masonry	Yes
Beams	Yes
Underground Structures	Yes



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