

Shieldproof BT220

Cold Applied Bitumen Emulsion



MICSHIELD®

Description

Shieldproof BT220 is a single-component, cold-applied, bitumen-based emulsion and waterproof coating for concrete and masonry, provides protection for surfaces by preventing water and water vapor.

Uses

- General-purpose, water-resistant coat for external and internal applications of concrete.
- Used as a primer when diluted with an equal amount of water in a single coat to enhance adhesion between the substrate and waterproofing sheet membranes.
- Protection against water and water vapor.
- Can be applied on concrete, cement, corrugated sheets, roofs, etc.
- Can be applied in underground structures, foundations and under tiles.
- Provides protection on damp and dry surfaces.

Characteristics / Advantages

- Easy to apply and economical.
- Excellent protection against ingress.
- Resists chloride and sulfates attacks.
- Provides concrete protection below and above ground.
- Cold application by brush or roller.
- Can be used as a curing compound for green concrete.

Shelf Life and Storage

Shieldproof BT220 has a shelf life of 12 months when stored in its original unopened packing in cool and dry conditions, protected from direct sunlight, heat and moisture. Shelf life may reduce if the recommended storage conditions are not followed.

Typical Properties

Color / Appearance	Dark brown liquid
Specific Gravity (@ 23°C)	1.08 ± 0.05
Drying Time	1 – 4 hours
Bond Strength	1.77 MPa
Application Temperature	5 to 45 °C
VOC	Nil

Standard Compliance

Shieldproof BT220 complies with ASTM D1227, Class 1.

Packaging

Shieldproof BT220 is supplied in 15 and 200-litre drums.

Consumption

Approximately 0.20 – 0.30 L per m² per coat for 70 – 110 microns dry film thickness.

Note: This coverage is theoretical and may vary due to site wastage and substrate porosity and texture.

Safety Instructions

Shieldproof BT220 is non-flammable material and may cause irritation to skin or eyes. For further information Refer to the Material Safety Data Sheet.



Application Instructions

1. Surface Preparation and Priming

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, loose coatings and surface treatments, etc.

Concrete substrates should be prepared mechanically using grinders or captive blast cleaning to remove cement laitance and achieve an open textured, fine gripping surface. All dust, loose and friable material must be completely removed from all surfaces preferably by brush or vacuum.

2. Mixing

Shieldproof BT220 should be stirred prior to use, to ensure a homogenous liquid.

3. Application

Shieldproof BT220 can be applied by roller or brush at the rate of 0.20 – 0.30 L/ m². Allow the first coat to cure before applying the second coat for around 1 – 4 hours; full drying of the first coat depends on the relative humidity and the ambient temperature.

The second coat should be applied at the same rate within the recoat window (overcoating time), perpendicular to the first coat to secure the membrane interlock and to provide an impervious barrier.

4. Cleaning

Tools should be cleaned immediately with clean water. Hardened material can be cleaned using **Shieldsolvent 75** or can be removed mechanically.

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions store the material in a cool environment prior to application.
- Protect from frost and rain until full curing.

Technical Support

Refer to contacting technical information, method statement or technical support team for any inquiry.

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