

SHIELDPROOF CW106



MICSHIELD®

Single-component, Flexible, Cement-based Waterproofing Membrane for Concrete

Description

Shieldproof CW106 is a single-component, flexible, cement-based waterproofing for concrete, designed to protect concrete structures from water, vapor, chloride ions, acids, and alkali gases.

Uses

- Can be used as structural protection behind cladding.
- For waterproofing and protecting concrete structures, tanks, basins, pipes, etc.
- Waterproofing of bathrooms, showers, terrace roofs, and swimming pools before the application of ceramic tiles bonded with adhesives.
- Waterproofing of external wall surfaces to be backfilled in ground.
- Flexible protection coating for reinforced concrete structures against the effects of carbon dioxide attack to improve durability.

Characteristics / Advantages

- Single-component, easy to apply, and ready to use.
- Good flexibility with thermal expansion.
- Excellent sag resistance.
- Adjustable consistency, easy to be applied by brush or trowel.
- Excellent adhesion performance on different substrates including concrete, cement mortars, stone, and masonry.
- Provides waterproofing even on damaged surfaces.
- Can be applied on damp surfaces.
- Excellent crack-bridging characteristics.

Shelf Life and Storage

Shieldproof CW106 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Color	Grey
Bulk Density (@ 23°C)	1.15 ± 0.02 g/ml
Mixed Density (@ 23°C)	1.50 ± 0.02 g/ml
Pot Life (@ 23°C)	60 minutes
Overcoating Time	3 – 4 hours
Flow (Brushable consistency)	15 mm
Resistance to Positive Water Pressure (DIN 1048)	5 bars
Adhesion Strength (EN 1542)	≥ 0.5 MPa
Application Thickness	1 – 3 mm

Standard Compliance

EN 1504-2, Principle 1.3 C

Packaging

Shieldproof CW106 is supplied in 25 kg bags.

Safety Instructions

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear. For further information, refer to the Material Safety Data Sheet.



Application Instructions

1. Surface Preparation

Concrete must be sound and clean from dust, loose material, curing compounds, oils, etc. Any delaminated and deteriorated concrete should be removed by suitable means.

Any rust, scale, concrete, and other loose material on the steel reinforcement should be removed using abrasive blast cleaning or other suitable means to reach the bright condition.

Prior to application, thoroughly saturate the surface of the concrete to provide a saturated surface dry condition (SSD). Poor-quality concrete may require soaking for a significant length of time. Any surface water should be removed using an oil-free compressed air jet.

2. Mixing

Pour into a suitable container 7.0 liters of clean water for each 25 kg of **Shieldproof CW106**. Add the powder gradually to the water and mix using a low-speed mixing drill fitted with a suitable mixing paddle, until a creamy consistency is achieved.

3. Application

To achieve the perfect characteristics, the correct rate and method of application are necessary. Apply not less than two coats of **Shieldproof CW106** by brush, all areas should be covered with a sealer, and allow 3 – 4 hours between coats.

4. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water. Hardened material should be mechanically removed.

Consumption

Approximately 1.50 kg per m² per coat for 1 mm wet film thickness.

Note: This coverage is theoretical and may vary due to site wastage and actual joint depth/width.

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.

Technical Support

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

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