

Shieldprime MK IQ



Sand-filled, Polymer-based, Alkali-resistant Concrete Primer

Description

Shieldprime MK IQ is a ready to use, solvent-free, sand-filled, polymer-based primer, designed to prime and seal surfaces of concrete and masonry.

Uses

- Interior and exterior applications.
- For vertical, horizontal, and overhead applications.
- Suitable for various substrates; cement, concrete, fair-faced concrete, plaster, gypsum boards, blocks, tiles and lightweight concrete.
- Works as a key coat layer prior to gypsum, cement, lime-based plasters, decorative coatings, and self-levelling cement-based underlayments.
- Suitable for tile-over-tile applications.
- Can be applied to untreated, dry, old, or porous concrete surfaces.

Characteristics / Advantages

- Easy to use.
- Compatible with various substrates.
- Reduces efflorescence.
- Closes and seals pores in substrates.
- Improves adhesion and bond of subsequent layers.
- Reduces surface alkalinity.
- Odorless and non-toxic.

Shelf Life and Storage

Shieldprime MK IQ 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.

Packaging

Shieldprime MK IQ is supplied in 20-kg bucket.

Typical Properties

Appearance	Orange liquid
Specific Gravity (@ 23°C)	1.40 ± 0.10
Drying Time	45 – 60 minutes
Application Thickness	200 – 400 microns

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. Substrate Temperature

+5°C to +35°C

2. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, and any materials that may reduce bond or prevent penetration of the primer.

Surface defects such as cracks, blowholes, and voids must be repaired using appropriate products from **Shield Concrete Repair** range.

3. Mixing

Shieldprime MK IQ should be stirred before application, to ensure a homogenous liquid.

Shieldprime MK IQ can be diluted with clean water by 20–30% of its weight to ease application on smooth or highly absorbent surfaces. Do not exceed the recommended ratio to ensure optimal adhesion and performance.

4. Application

Shieldprime MK IQ is applied by brush or roller and allowed to dry.

The tile surface must be scuffed/ sanded if glazed or glossy. The primer is then applied after 1 – 3 hours depending on temperature, humidity and weather conditions.

5. Cleaning

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

6. Curing

Curing is not normally necessary but freshly applied material should be protected from rain and direct sunlight until dry.

Consumption

0.20 – 0.28 L/m² but may vary due to site wastage and substrate condition/profile.

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 mixing.

Technical Support

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

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