Estomax MX200

Crystallization Cementitious Waterproofing

Description

Estomax MX200 is a one part cementitious crystallization waterproofing coating. It consists of specially selected cements, graded hard wearing aggregates and additives supplied in powder form.

In the presence of moisture, the active chemical in **Estomax MX200** penetrate concrete and react chemically with free lime to produce insoluble crystals. This crystalline growth reduces porosity by blocking capillaries and filling hairline non-structural cracks (up to 0.3 mm wide) caused by shrinkage or expansion. Unlike coating and membrane types of waterproofing, which only form a surface barrier. **Estomax MX200**, in the presence of water, continues producing crystals and a lasting imperviousness to water.

Uses

Waterproofing system for:

- Basements – floor and wall
- Swimming pools, reservoirs and dams
- Waste tanks/water storage structures
- Underground tunnel structures
- Marine and coastal structures
- Roof garden or any fresh concrete
- Planter boxes, balconies and concrete slabs

Advantages

- **Estomax MX200** reacts with water to form a non-soluble crystalline matrix throughout the capillary voids in the concrete. This crystalline matrix will enable the concrete to be resistant to aggressive chemicals and water ingress - even under extreme conditions eg high water pressure
- Suitable to be used for either new or restoration waterproofing works for water retaining concrete structure.
- Seals crack or voids up to 0.3 millimeter.
- Can be used for most concrete structure - either exposed to water or structures expected to be in contact with water.
- Can be applied from positive or negative side. It can be applied to moist or green concrete.
- Increase resistance to frost, weathering, salt water, aggressive ground water and many chemicals.
- Estomax MX200 permits the concrete to breath, eliminating water vapour from building-up.
- SIRIM tested for use with potable water.

Physical Properties

Color	Grey powder
Water Permeability Test at 28 days, mm DIN 1048-1991 Part 5	< 17.0
Testing water for suitability for use in human consumption BS 6920 : Part 1	Complied

Application Instructions

(A) Dry shakes for treatment to basement slabs

Estomax MX200 can be dry sprinkled onto clean and pre-wetted lean concrete at the rate of 1.50 kg/m^2 immediately prior to the casting of the structural slabs. Application by dry sprinkling distribution shall be over the surface by hand. The thoroughly wetted down lean concrete surfaces shall be free of lying water before application of **Estomax MX200**.

(B) Dry shakes for newly poured concrete

Use **Estomax MX200** as it is, directly from container. Wearing rubber gloves, distribute the powder evenly by hand, over freshly poured concrete at the rate of 1.50 kg/m^2 before final floating operation. It is best to distribute the powder at ½ the recommended rate in one direction, and the other half at right angle to the first application. Keep hand as close as possible to the surface to prevent material from blowing away. For large areas, a rotary type spreader may be used. Float slab and trowel to final finish.

(C) Slurry coat for existing concrete

Mixing (Slurry coat)

Mix 25kg of **Estomax MX200** with 7.5 Litres of clean water. Mix thoroughly for at least 3 minutes with a slow speed drill equipped with a paddle. For best result, add the clean water to **Estomax MX200**, and not the reverse. For larger batches, mix with a mortar mixer. Do not mix more material than can be used in 20 minutes (24 °C, 50% R.H.). If mixture thickens, re-stir to reduce consistency. Do not add extra water.

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Application

Use **Estokote Brush** (synthetic bristle) or plaster sprayer for the application of **Estomax MX200** slurry coat at a rate of 0.75 kg/m^2. Be sure to work slurry well into openings, rough surfaces, joints and routed out areas. When first coat has taken an initial set (usually within one hour), apply second coat at the same rate of 0.75 kg/m^2 in perpendicular direction. If first coat has dried out, moisten surface before applying second coat.

Curing and Protecting

Keep moist for a minimum of 24 hours after the application of **Estomax MX200**. After initial set, moist curing by continuous water spray. Treated surfaces shall be fog sprayed three to four times daily for 48-hour. For warmer climates, more frequent spraying may be required. It is important to keep the **Estomax MX200** moist to allow the crystal formation to occur. Use Estop Estocure curing compounds for the curing purpose. Protect surfaces from foot traffic for 48 hours or heavy traffic for 7 days. Protect **Estomax MX200** from extreme weather conditions such as rain, strong winds, high temperatures and freezing for a period of not less than 48 hours after application.

Packing and Size

Estomax MX200	25kg bag
Estokote Long Brush	11 inch
Estokote Short Brush	9 inch

Coverage

Dry shake	1.5 kg/m^2 15.0 – 16.0 m^2 / 25 kg bag
Slurry coat	0.75 kg/m^2 32.0 – 33.0 m^2 / coat /25 kg bag

Technical Support

Estop offers a technical support package to specifiers, end-users and contractors, as well as on site technical assistance.

Storage

Estomax MX200 should be stored in protected, dry areas. When left in original unopened package, **Estomax MX200** has a shelf life of 1 year.

Precaution

Estomax MX200 is alkaline and contains chemicals that may cause irritation to the eyes and skin. Wear goggles, rubber gloves and long sleeves when working with this product. Seek medical advice in the event of prolong irritation

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.