

ECMACOAT 210

Acrylic Polymer-based Waterproofing Compound and Surface Protection Coating

Description

ECMACOAT 210 is an acrylic polymer-based cementitious coating system that when mixed with cement on site, provides a seamless waterproof coating to concrete and masonry surfaces. ECMACOAT 210 can be used to enhance the properties of cement slurry/mortar/concrete to promote cohesion and adhesion, making it an excellent choice for use in new as well as renovation work. It can be applied in uniform thickness to horizontal and vertical surfaces to produce a tough, flexible, hard-wearing surface with good waterproofing capacity.

Areas of Application

ECMACOAT 210 can be used for surface treatment, protection, waterproofing, and repairing of concrete and masonry structures such as basements, toilets, terraces, small roofs, swimming pools, water towers, etc.

When mixed in plastering mortars @ 1 Kg/50 Kg Cement, it produces waterproof plasters that resist the normal tendency of hardened plaster to absorb water through voids and by capillary action.

Advantages

- Non-toxic, non-flammable, and user friendly
- Excellent Bonding with old and new concrete surfaces
- Provides a tough, impermeable waterproof membrane
- Is not affected by ultraviolet light or by chemicals ranging from mild acids to strong alkalis
- Breathable - allows inside water vapor to escape

Technical Specification

Appearance & Physical State	Milky Liquid
Mixing Ratio	ECMACOAT 210: Cement -1 Kg: 2 Kg
Specific Gravity at 27 °C	1.020±0.02
pH	>7
Solid Content %	32±2
Mixed Density kg/m ³ 27 °C	1900±100
Pot Life 27 °C	>30 Minutes
Initial Cure at 27 °C	Over Night
Full Cured at 27 °C	7 Days
Coverage Area 2 Coat	1.3 - 1.4Sqm/Kg
Adhesion bond strength	>1.5 N/mm ²
Water Permeability (at 5Kg/cm ² for 72 hours)	Passes (DIN 1048 part 5)
Shelf Life in the original unopened sealed pack	- 12 months

Application Instructions

Surface Preparation

All surfaces must be thoroughly cleaned by a wire brush or other mechanical means, to remove all dust, laitance, or debris. The surface must also be free from oil, grease, wax, or any other form of foreign matter which might affect adhesion. Spelled and deeply disintegrated concrete or mortar must be removed to a sound substrate and repaired suitably before coating.

Mixing: ECMACOAT 210 polymers shall be mixed with neat cement in the ratio of 1:2 respectively, to obtain uniform and consistent slurry avoiding any lump formation. This can be achieved with a low-speed drilling machine attached to a mixing puddle. Do not mix for more than 2 minutes. More material should not be mixed than can be used within the pot life. Re-tempering the mix with water should not be done. Keep on mixing till the entire quantity is applied, so that solids do not settle at the bottom of the container.

For mixing in plastering mortars, add ECMACOAT 210 directly into the batch mixer along with the required quantity of water and mix thoroughly. It disperses rapidly in water and may be premixed with water for each batch of mortar/ concrete.

Application: For best results, wet the surface before coating. Apply the mix with a short, stiff bristle brush-like paint to an approximate thickness of 1 to 2mm. During the first 12 hours of curing, ECMACOAT 210 surface must be protected from abrasion, rain, or other adverse conditions. No traffic shall be allowed within 48 hours after application.

Coverage

ECMACOAT 210 & Cement slurry coverage will be approximately 1.3 – 1.5 m²/Kg in 2 coats subjected to substrate condition and wastages. To achieve higher thicknesses (>1 mm), use 0.7 Kg ECMACOAT 210, 1.3 Kg Cement, and 1.3 Kg fine silica sand (150 microns) to produce a 3.3 kg/m² mix to cover a 1 Sqm area at 1.5 mm thickness. Unused material should not be left open. Do not apply if rain is expected within 24 hours

Packaging

20Kg, 50Kg, 200Kg

Storage & Handling

The material should be stored in a Cool and Dry shade. Also, protect it from Direct sunlight. Please avoid stacking containers and handle them with care during transport.

Precautions

Wear all PPEs at the time of application like Safety boots Safety goggles, Hand Gloves, and Mask, and avoid direct contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

ECMAS CONSTRUCTION CHEMICALS PVT. LTD

7-4-124 Gaganpahad,
International Airport Road
Hyderabad, India - 500 052
phone: +91-40-24360014, 16, 17
email: ecmas@ecmas.co.in

