

# ECMACOAT 210

## Acrylic Polymer based waterproofing and surface protective coating

### Description

ECMACOAT 210 is an acrylic polymer based cementitious coating system which when mixed with cement on site, provides a seamless waterproof coating to concrete and masonry surfaces. Ecmacoat 201 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 waterproofing.

### 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.

### 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 %	30±2
Mixed Density kg/m <sup>3</sup> 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 <sup>2</sup>

## **Application Instruction**

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### **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 polymer 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 with 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.

**Application:** For best results, wet the surface before coating. Apply the mix with a short, stiff bristle brush like a 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**

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ECMACOAT 210 & Cement slurry coverage will be approximately 1.3 – 1.5 m<sup>2</sup>/Kg in 2 coats subjected to substrate condition and wastages. To achieve higher thicknesses(>1 mm), use 0.7 Kg ECMACOAT 210, 1.3Kg Cement and 1.3Kg fine silica sand (150 microns) to produce 3.3 kg/m<sup>2</sup> mix to cover 1 Sqm area at 1.5 mm thickness.

### **Precautions**

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Unused material should not be left open

Do not apply if rain is expected within 24hours

### **Packaging**

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20Kg, 50Kg, 200Kg

### **Shelf Life**

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12 Months in original unopened sealed condition.

### **Storage & Handling**

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Material should be stored in Cool and Dry shade. Also protect it from Direct sunlight. Please avoid stacking of containers and handle with care during transport.

### **Safety Precautions**

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Wear all PPE's at the of Application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoided with contact of Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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