

## ECMAS HI-FINISH

### Hydrophobic & Dehumidifying White Cement Base Wall Putty

#### Description

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ECMAS HI-FINISH is a 100% waterproof (resistant against heavy rain / monsoon rain with water penetration less than 1 mm) and dehumidifying (with high volume of microspores which allows permanent dehumidifying process of wet substrate), white superfine skim coat. It provides long-term solution to a problem of water penetration to the wall and simultaneously provides long-term solution of ventilation and drying of wet walls without any harmful content or toxic ingredients.

#### Areas of Application

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Applicable on vertical surface (concrete wall and plastered wall) both for renovation of existing / historical buildings and for new buildings:

- External plastered wall / precast concrete wall / cast-in-place concrete wall
- Internal plastered wall / precast concrete wall / cast-in-place concrete wall

#### Advantages

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- World-unique skim coat - simultaneously 100% waterproof, breathable and dehumidifying
- Resistant against penetration of water from heavy rain / monsoon rain
- Highly breathable and abrasion resistant
- Dehumidifying ability - constantly dries out moisture from inside the wall and allows it to evaporate outside
- Excellent adhesion to the substrate with minimum waste during application
- Resistant against salt crystallization and Sulphur-resistant
- Applicable on damp surface and manually or by plastering machine
- Smooth and white superfine finish, corrects uneven surface
- Non-toxic

ECMAS Hi-Finish can be applied either on surface plastered by ECMAS plaster (ECMAS HARD, ECMAS EXTERIOR, ECMAS ULTRA) or on surface plastered by ordinary plaster. Hi-Finish provides white smooth finish. Concrete neutralizer, patching compound and primer does not have to be used prior to painting. Any kind of masonry paint is suitable in terms of adhesion. In terms of breathability it is recommended to use diffusion-open paint (silicate paint, cement paint, lime wash paint) as it enables breathability and it is not recommended to use diffusion-closed paint (elastomeric, latex) as it disables breathability. If ever diffusion-closed paint (elastomeric, latex) is used; before paint is applied, Hi-Finish helps to protect external walls against water penetration (100% waterproof ability) and in the same time helps to get rid of moisture accumulated inside concrete or plastered walls, ceilings, beams and columns (dehumidifying ability).



## Technical Specification

Appearance/ Physical state	White/ Powder
Type of Product	WBD component, PP fibers
Bulk Density @27°C kg/m <sup>3</sup>	1350±50
Particle Size	≤ 44 µm
Pot Life @27°C	>3 Hours
Recommended Thickness for 2 Coats	2 - 3 mm
Max. Depth of water penetration	<1mm

## Application Instruction

### Surface Preparation

ECMAS Hi-Finish is designed to be applied on plastered substrate (plastered with any of the ECMAS WBD plaster - ECMAS HARD, ECMAS WBD, ECMAS ULTRA or plastered by Ordinary plaster) or on Concrete substrate (Pre-cast Concrete or Cast-in-place concrete). Surface must be solid and without impurities, loose particles and contaminants such as oil, dust, grease, alcohol, etc. It is recommended to patch holes deeper than 2 - 3 mm with plaster mixture before application of Hi-Finish. It is recommended to slightly wet the surface immediately before application.

### Mixing

It is advisable to use hand-held electric mixer to mix ECMAS Hi-Finish. Water is always added first, 7.2 - 7.5 liters of water per 20 kg of Hi-Finish. Nothing else is added into mixed composition. Add the prescribed amount of water into a suitable mixing container, followed by Hi-Finish powder. Mix for at least 5 minutes with constant slowly mixing into a homogeneous smooth slurry. Then let the slurry rest for 5 minutes and then mix again for 1 minute. Mixed Hi-Finish must be used within 2.5 - 3 hours.

### Application

ECMAS Hi-Finish is applied manually by trowel or by machine pump on prepared surface in recommended total thickness 2 - 3 mm. It is recommended to apply Hi-Finish in 2 layers. First layer is applied in thickness 1 - 1.5 mm. When first layer is partially dry (after 30 - 60 minutes), second layer is applied in thickness 1 - 1.5 mm to reach total thickness 2 - 3 mm.

### Cleaning

Clear water is used for disposal of plaster for the tools and equipment. Hardened material can be disposed only in a mechanical way.

### Coverage

ECMAS HI FINISH Coverage will be approximately 1 Kg/1 m<sup>2</sup> for 1 mm thickness. Hi Finish coverage depends upon surfaces and substrate conditions and wastages.

### After Application

At least 24 hours after application of Hi-Finish, sandpaper can be used to correct trowel lines and imperfections caused by application. Dust created by sand paper must be washed off the surface with water - water does not penetrate through Hi-Finish and wall does not get wet.

## **Final Coating/Painting**

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Let Hi-Finish to dry / harden at least 3 days before finishing the surface. Hi-Finish can remain exposed without any final coating / painting. If final coating / painting is required, decorative coatings with high water vapor permeability should be used (highly breathable - diffusion-open decorative coatings / paints like silicate paints, cement paints, lime paints). If you are using different type of paint, check its suitability with the manufacturer.

## **Limitations and Precautions**

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- No additives other than clean water should be added to Hi-Finish
- Hi-Finish is not applied during strong sunlight and / or strong wind or rains
- ECMA Hi-Finish is applied only on a sound & well prepared substrate
- The freshly applied Hi-Finish must be protected from rain for at least 24 hours (at 20 ° C)
- If ECMA Hi-Finish is applied inside, it is necessary to ensure proper ventilation of the room for optimum drying
- Mixed ECMA Hi-Finish can only be processed at air and substrate temperature above + 5 ° C
- With the expected freeze, it is not recommended to use Hi-Finish
- Potable water is used for mixing of Hi-Finish
- Unused ECMA Hi-Finish remnants are mixed with water, allowed to cure and disposed as construction waste
- Contaminated packaging's are disposed as hazardous waste (see safety data sheet)

## **Packaging**

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25 Kg & 40 Kg HDPE/Paper Bag

## **Shelf Life**

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18 Months from Date of Manufacturing

## **Storage & Handling**

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Material should be stored in Cool and Dry shade. Please do not use hook and handle carefully 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.

## **ECMAS CONSTRUCTION CHEMICALS PVT. LTD**

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