

# ECMAS CONPLUS

## WATERPROOF AND DRYING PLASTER

### Description

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**ECMAS CONPLUS** is an extremely waterproof dry plaster mixture that will create a waterproof membrane after application; while it allows drying at the same time. Revolutionary technology integrated in ECMAS CONPLUS allows the plaster to be 100% waterproof and 100% drying at the same time. The plaster is produced from natural materials and does not contain any harmful or inflammable ingredients and it is environmentally friendly.

### Advantages

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- Excellent adhesion to concrete
- Excellent waterproof capability with air permeability (drying effect)
- Applicable as above-grade or sub-grade insulation
- It is possible to apply to wet surface.
- Prevention against salt crystallization
- Non-Toxic
- Good chemical resistance against light alkalis and acidic water
- It can be applied manually (trowel) or with a spray applicator
- No need for additional membranes or protection plaster

### Areas of Application

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- Concrete walls in basements, parking lots
- Bathrooms, shower bath, balconies
- Concrete tanks, UGT, STP, UG Sumps, etc.

### Installation Guidelines

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**Surface Preparation:** Before applying **ECMAS CONPLUS**, it is important to remove all existing plaster, stucco, loose particles, residual paint, oil, rust, dust, and other impurities. Defective wall elements, such as damaged bricks, should be repaired or replaced. If used as a repair mortar, the old plaster should be removed 30-40 inches (800-1000mm) above the boundary of water incursion. If salt efflorescence is present, jointing must be raked to a depth of 20mm. The wall surface should be thoroughly cleaned with suitable equipment such as high-pressure air, water, or wire brush. Water absorbent surfaces should be well moistened with water before application. To maximize cohesion a thin mixture of cement and water should be spattered onto the surface before plastering. In cases of water leaking onto the plastered surface, it is important to ensure that the leakage is stopped for at least 72 hours or more, if possible, to ensure the proper setting of the plaster.

Note- If there is any doubt about surface suitability before plastering, always test small area first



## Mixing

To a 25 kg bag of **ECMAS CONPLUS**, approximately 5.5 to 6 liters of water is added in a gravity mixer. Mix or stir for 7-10 min. Mixed material has a pot life of 1 hour. It is recommended to use electrically powered mixing tool, due to hydrophobic abilities of the plaster.

**DO NOT ADD ANYTHING INTO MIXED COMPOSITION!**

## Applying ECMAS CONPLUS

The plaster is laid on the prepared surface manually with a smoother or with a spray applicator (commonly used method). Cement and water mixture should be prepared (Density of the mixture should be water like). Apply cement and water mixture on the application surface (Surface must be wet). Apply layer of **ECMAS CONPLUS** at a thickness of 5mm and immediately insert a fiberglass mesh into the wet plaster. The fiber glass mesh should have an overlap of minimum 100 mm. The minimum thickness of one layer should be 5 mm; with a maximum of 2 layers (10mm) can be laid. Finish the surface as per the requirement.

**Care After Application:** It is necessary to prevent the plaster from drying too fast since the optimal moistness enables permanent hydration of cement materials and minimization of cracking. When the last layer is laid on it is important to keep the surface permanently wet for 2 days. Upon curing, the surface can be painted or tiles can be laid.

## Important

While plastering extremely moist surfaces, aggregation of water drops on the plaster surface can occur. It is inherent forcing the water out of vicinity. This is due to the 'drying-effect' of the plaster.

## Safety & Precautions

Wear all PPE's at the time of application like Safety boot, Safety Goggles, Hand Gloves, Mask, etc. and avoid contact with Skin and Eyes. Any direct skin contamination should be washed off immediately with soap and water.

## Technical Specification

Appearance/Color	Powder / Grey
Chemical Base	Sand, Cement, WBD Component
Layer Thickness	One layer of 5 mm (minmum)
Coverage	3.5 Sqm/bag @ thickness 5 mm
Packaging	25 kg bag
Shelf-life	18 months when stored in dry condition
Maximum depth of water penetration into hardened plaster	≤ 1mm
Diffuse resistance of water vapor, coefficient	12.36

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