

EUCOPROOF CEM PLASTER

VAPOUR-PERMEABLE, WHITE CEMENT-BOUND FINISHING PLASTER

FIELD OF APPLICATION

EUCOPROOF CEM PLASTER is a multifunctional, fibre-reinforced and white cement-based coating plaster with high vapour permeability and large pore volume. Due to the low capillary absorption capacity (hydrophobic pores), the moisture from the substrate can only migrate through this renovation plaster as vapour. Harmful salts are absorbed in the pores. That is why the surface is free from salt efflorescence. The hydrophobic property (HQ Technology) starts very quickly, which leads to a high security. The hydrophobization can be observed while the plaster has not yet cured. During the curing time, no salts can migrate through the coating.

EUCOPROOF CEM PLASTER is used for repair and maintenance work on damp and salt damaged masonry and can be used both indoors and outdoors. The product is mainly used on old masonry in basements and foundations and can also be used as an anti-condensation and mould plaster. EUCOPROOF CEM PLASTER can be applied over a cement-based waterproofing system.

- Damp masonry and concrete
- Can be used indoors and outdoors
- Structures, walls, ...damaged by salt.
- Waterproofing in combination with cement-bound waterproofing systems or after treatment of rising humidity with EUCOSEAL HYDROGEL RD.
- Anti-mould plaster
- Anti-condensation plaster
- Etc...

BENEFITS & FEATURES

- Applicable in one layer thickness
- Hydrophobic pores
- Fibre reinforced, no cracking
- Also hydrophobic in the uncured phase
- HQ Technology
- Thixotropic
- White colour, can be coated with vapour open paints, coatings, ...
- Long-term salt resistant
- Without light fillers
- Large pore content
- Vapour open
- Can be sprayed and pumped
- Part of a restoration plaster system
- Low chromate content

APPLICATION

Application conditions

Before starting with the application, it is necessary to test various parameters in order to achieve a good end result.

Compressive strength of the substrate: min. 25 N/mm².

Tensile strength of the substrate: min. 1.5 N/mm².

Water-bearing cracks and joints are to be treated with EUCOCHEM injection resins first.

A primer is recommended. A trial application is recommended on critical surfaces.

Substrate moisture content: $\leq 10\%$ moisture.

the recommended application temperature is between +5°C and +30°C. During curing, the relative humidity must not exceed 65%. Immediately after application until curing, EUCOPROOF CEM PLASTER must be protected against rain, direct sunlight, wind, ... to prevent washing away or drying out too quickly.

Tools & complementary products

- EUCOPROOF PLUG and/or EUCOPROOF PLUG XF
- EUCOSEAL MORTAR THIX
- EUCOPROOF SALTSTOP
- Mixer with spindle (low speed).
- Trowel and spatula
- Clean mixing containers.

Preparations

Make sure the surface is dry ($<10\%$ moisture) and free from free standing water. Leaking and water bearing cracks and joints should be sealed with EUCOCHEM injection resins. The substrate must be absorbent and clean. Adhesion inhibitors such as grease, oil, formwork oil, cement veil and all loose particles and dust must be removed. First apply a primer. Expansion joints are repeated in the system to be installed. The flatness of the substrate must correspond to the desired requirements, i.e. fill or level irregularities ($>5\text{mm}$) with products complementary to the substrate and to the waterproofing membrane to be installed.

Construction joints, contraction joints and passive cracks or fissures can be covered. This is on the condition that they are no longer used as expansion joints or if they do not follow other movements of the construction and the substrate and that these are also levelled with products that are complementary to the substrate and the waterproofing system to be installed. Moving and/or leaking cracks and joints must be treated separately or waterproofed by means of complementary EUCOCHEM injection systems. Adhesion will improve on concrete surfaces if these are blasted or sanded before treatment with the primer and the membrane. Hollow inner corners, outer corners (wall/wall, wall/floor slab, ...), joints, flashings, caps and penetrations, etc... must be finished with a mortar that is compatible with the substrate, the primer and the waterproofing membrane. A dusty or salt damaged substrate must be treated with EUCOPROOF SALTSTOP (also suitable as a primer) before the plaster is applied. Loose, sandy and damaged joints must be removed, at least 2 cm deep. Damaged stones must be replaced. EUCOPROOF CEM PLASTER can be applied over a cement-based waterproofing system. In situations with negative water pressure, it is absolutely advisable to first treat the surface with EUCOPROOF CEM REACTIVE before applying EUCOPROOF CEM PLASTER.

Preparation of the product

EUCOPROOF CEM PLASTER must be mixed with pure water, approx. 7-9 litre per bag. Can be made manually or with a mixer and spindle at low speed. (Plaster processing machine: approx 225 l/hour). A mixing time of 2 to 3 minutes must be observed.

Application of the product

We recommend applying the plaster in two layers. Apply the first layer of min. 1 cm to max. 2 cm thickness with a trowel, spread over the surface and level with a spatula. After some time when this first layer of plaster has dried slightly, scratch small grooves of 2 mm deep in the surface (or roughen), then apply the second layer of min. 1 cm to max 2 cm with a trowel and finish smoothly with a spatula.

Finishing

EUCOPROOF CEM PLASTER can, after curing, be covered with vapour open paint or coatings.

Cleaning of the tools

Clean the used equipment with water. Remove cured product residues mechanically.

MAINTENANCE AFTER APPLICATION

Does not apply.

TECHNICAL DATA

Consumption

7.5 kg/m²/cm, depending on the roughness of the substrate.

Technical data & reaction times

| Property | Value |
|--------------------------------|---|
| Basic raw materials | Special white cements, quarts and additives |
| Compressive strength | > 2 N/mm ² . |
| Air content | > 30 Vol.-% |
| Water absorption: | W2 - ≥0,3 kg/m ² after 24h |
| Vapour permeability (μ value)! | < 12 |
| Thermal conductivity | <0,25 W/(m K) for P=50% <0,27 W/(m K) for P=90% |
| Coherence | ≥0,05 N/mm ² (in fracture pattern A, B of C) |
| Reaction to fire | A1 |
| Shrinkage | < 0,02% |
| View - colour | Powder - White |

PROCESSING TIME: max 30 min

Chemical resistances

When used in applications with chemically contaminated water or chemical products, it is advisable to consult your EUCOCHEM BV representative.

Additional documentation & referrals

Always consult all technical data sheets and material safety data sheets of the products to be used. Always work with clean tools in good condition.

APPEARANCE - COMPOSITION - PACKAGING

EUCOPROOF CEM PLASTER is available as follows: 20 kg bag.

Store EUCOPROOF CEM PLASTER in a dry, frost-free room and in the unopened original packaging. Do not store in direct sunlight and between +5°C and +30°C. Shelf life 6 months after production date if kept under the above mentioned conditions.

ADDITIONAL COMMENTS

For special applications it is advisable to consult your EUCOCHEM BV representative.

SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [op www.eucochem.com](http://op.www.eucochem.com). When in doubt, contact our technical service.

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