

# EUCOPROOF CEM REACTIVE

## DEEP PENETRATING, CRYSTALLINE AND CEMENT-BASED, RIGID WATERPROOFING COATING

### FIELD OF APPLICATION

EUCOPROOF CEM REACTIVE is a crystalline, permanently active, powdery, rigid waterproofing slurry based on cement and special additives with specific deep penetrating properties. Immediately after application, crystallization starts and remains permanently active.

EUCOPROOF CEM REACTIVE is used for reliable and permanent waterproofing against water, both at positive and negative water pressures. EUCOPROOF CEM REACTIVE is used on vertical and horizontal surfaces. It can be used on almost all mineral, sufficiently dimensionally stable surfaces.

- Waterproofing and protection of mineral surfaces.
- Basements
- Foundations
- Concrete elements
- Parking garages, tunnels, water tanks, ...
- Wet areas or manholes
- Etc...

### BENEFITS & FEATURES

- Waterproof against water under pressure (14 bar, depending on the substrate)
- Active crystallization
- Integral waterproofing system
- Sustainable effect
- Resistant to salt water and frost
- High compressive strength and good adhesion
- Sealing capillaries with crystals
- Low consumption
- Easy to apply
- Pumpable

### 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/mm<sup>2</sup>.

Tensile strength of the substrate: min. 1.5 N/mm<sup>2</sup>.

Water-bearing cracks and joints are to be treated with EUCOCHEM injection resins first. A primer is recommended but not mandatory (depends on the type and porosity of the substrate). A trial application is recommended on critical surfaces.

Substrate moisture content: ≤ 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 REACTIVE must be protected against rain, direct sunlight, wind, ... to prevent washing away or drying out too quickly.

#### Tools & complementary products

- EUCOPROOF CEM REACTIVE AGENT (Optional - order separately)
- EUCOPROOF PLUG and/or EUCOPROOF PLUG XF

- EUCOSEAL MORTAR THIX
- EUCOPROOF SALTSTOP
- Mixer with spindle (low speed).
- Rigid brush type CERMIBRUSH or worm pump (spray application).
- Clean mixing containers.
- EUCOPROOF CEM PLASTER (Optional)

### 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. If necessary, 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 (>5mm) 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 slurry is applied. Loose, sandy and damaged joints must be removed, at least 2 cm deep. Damaged stones must be replaced.

### Preparation of the product

Mix EUCOPROOF CEM REACTIVE with clean water (approx. 8 litre per 25 kg) or with a full pack of EUCOPROOF CEM REACTIVE AGENT. Use a slow rotating mixer for this. First, pour the water or the EUCOPROOF CEM REACTIVE AGENT in the mixing container. Then gradually add the entire bag of EUCOPROOF CEM REACTIVE while mixing; mix until a lump-free mas is obtained. After mixing, wait 1 minute and mix the mixture again.

### Application of the product

The application on the surface must be done with a hard brush type CERMIBRUSH (or spray with a worm pump). Apply the first layer with horizontal strokes. Always apply two layers, always observing the minimum thickness. Place the second layer crosswise on the first (vertical strokes). The first layer must not be completely cured before the second layer had been applied. If necessary, moisten the surface again slightly by spraying clean water on the surface.

### Finishing

EUCOPROOF CEM REACTIVE can be covered with vapour open coatings or plasters. For applications in basements with negative water pressure, we recommend additional overlay of the system with EUCOPROOF CEM PLASTER to prevent condensation on the walls.

## Cleaning of the tools

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

## MAINTENANCE AFTER APPLICATION

Does not apply.

## TECHNICAL DATA

### Consumption

2 kg/m<sup>2</sup>/layer

(= min. thickness 1,4 mm/layer)

### Technical data & reaction times

Property	Value
Basic raw materials	Special cements and additives
Bulk density	approx. 1,18 kg/dm <sup>3</sup>
Water/vapour permeability factor $\mu$ :	approx. 65
Shrinkage	< 0,02%
Rek	>7000%
Applicatietemperatuur	-15°C to +60°C
Temperatuur bestendigheid	-45°C to +110°C
View - colour	Powder - grey

PROCESSING TIME: 3 hours. (at 20°C / 50% R.H.)

CURING TIME: After approx. 9 hours.

PEDESTRIAN ACCESSIBLE: After 1 day

LOADABLE: after 1 day

FULL CURE: 28 days:

### Chemical resistances

When used in applications with chemically contaminated water or chemical products, it is advisable to consult your EUCCHEM 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 REACTIVE is available as follows:

25 kg bags.

Store EUCOPROOF CEM REACTIVE 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 EUCCHEM 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://www.eucochem.com). When in doubt, contact our technical service.

All information in this technical data sheet is provided in good faith and without any guarantees. The choice of a product for any application by the buyer or applicator, the processing of the products, the preparations, the finishing, the use of the right equipment to apply the products and all this in the broadest sense, are entirely beyond our control and are therefore entirely the responsibility of the buyer or applicator. Therefore, EUCCHEM bv cannot be held responsible on the basis of what is mentioned above. Should EUCCHEM bv nevertheless be held responsible for damage incurred, the claim will always be limited to the value of the necessary EUCCHEM bv products to be delivered in order to carry out a minimal repair. EUCCHEM bv strives to deliver products of consistent, good quality. All values on the technical data sheet are average values and are the result of tests performed under laboratory conditions. Values that are measured in jobsite conditions and the like may deviate from the stated values. This is because the environmental conditions, the application and the manner of processing our products are also outside our control. Please note that you should not add

any products other than those indicated in our technical documentation. Only use EUCCHEM bv products for a system under construction. If you combine products from different suppliers or brands, the warranty expires irrevocably. When applying the EUCCHEM bv products it is necessary to draw up a construction site log and to fill it in on a regular basis. EUCCHEM bv can consult the construction site log at any time and / or request a copy to check whether the products and systems have been correctly installed or installed in accordance with the regulations set by EUCCHEM bv. We also refer to our general terms and conditions in case of dispute. This version of the technical data sheet replaces all previous versions. Version 1.0 Date: 14 October 2021 11:10 am