

# CERMIPROOF CRYSTAL 2K

## CEMENT-BASED, TWO COMPONENT, CRYSTALLIZED WATERPROOFING MATERIAL



Gray



- Provides waterproofing by filling the capillary gaps in the concrete
- High adhesion thanks to polymeric additives
- Resistant to negative and positive water pressure
- Quick solution with ease of application

## PRODUCT INFORMATION

### WHERE TO USE

- In basements and elevator shafts,
- In foundation and curtain walls,
- External insulation of water tanks,
- In sewage and waste water treatment plants,
- Capillary effective waterproofing material that can be applied to concrete-exposed concrete surfaces indoors and outdoors, from negative and positive directions.

### GENERAL FEATURES

**Nature of Material** : Contains high quality cement, it contains water impermeability, crystallized, one-component waterproofing material with capillary effect

**Type** : Powder  
**Colour** : Gray  
**Density** :  $1,70 \pm 0,1 \text{ g/cm}^3 \text{ (A+B)}$

### STANDARDS AND DOCUMENTS

- Tested as per TS EN 1504-2 standards
- CE
- Public Works Pos. No. 04.477/3

### STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.

### CONSUMPTION

- Average  $3 \text{ kg/m}^2$  (for 2 layers)

### PACKAGING

- In set of kraft bags, 25kg, (component A); plastic drum 2 lt (component B)

### TECHNICAL CHARACTERISTICS (\*)

<b>Temperature resistance</b>	: -30 °C +70 °C
<b>Waterproofing Adhesion Strength</b> (EN 1542)	: 7 bar ( positive and negative ) : $\geq 1,0 \text{ N/mm}^2$
<b>Water Vapor Permeability</b> (EN ISO 7783)	: Class 1 Sd < 5 Sd: (Equivalent air layer thickness)
<b>Capillary Water Absorption Value</b> (EN 1062-3)	: $< 0.1 \text{ kg/m}^2\text{h}^{0.5}$

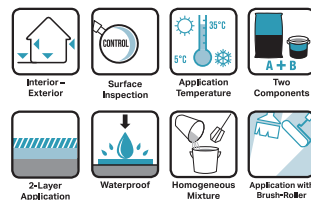
(\*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

Chemical Resistance	7 days	28 days
Sea water	(++)	(++)
Olive oil	(++)	(++)
Lactic acid (%60)	(++)	(-)
Pure Water	(++)	(++)
Apple Juice	(++)	(+)
Ethyl Alcohol (min. 96%)	(++)	(++)
Olive Brine	(+)	(+)
Fuel Oil	(++)	(++)

++ Resistant to the chemical mentioned.

+ Resistant to the chemical mentioned, but color change may occur.

- Not resistant to the chemical mentioned; deformation is present.



## APPLICATION

## APPLICATION PROCEDURE

**Pot life:** 45 minutes

**Application temperature:** +5 °C , +35 °C

**Number of coat:** 2-3

**Wait time between coats:** Minimum 6 hours

**Wait time to final coat application:** Minimum 7 days

**The time required to fill the water tanks :**

Positive pressure ; min. 7 days

Negative pressure ; min. 14 days

## SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Reduce the surface temperature by moistening the surface with water spray method prior to application on surfaces exposed to direct sunlight or on overheated surfaces.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIREP**.
- If there are active water leaks on the surface, they should be stopped with **CERMIPLUG** water blocking mortar.

## APPLICATION

- Mix 2 kg **CERMIPROOF CRYSTAL 2K** 's liquid component and 5.5-6 liters (22-24%) clean water. Gradually add **CERMIPROOF CRYSTAL 2K** and mix to a smooth and homogenous paste. It is recommended to use a low cycled electrical drill-mixer for mixing.
- Allow the mixture to rest for 3 minutes prior to application and apply after mixing it again.
- The prepared mixture should be applied to the surface with a brush as a minimum of 2 layers. The first coat should be applied from right to left or from top to bottom.
- 2. coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.

## RECOMMENDATIONS

- Any substance other than the specified amount of water should not be added to the product.
- Products with petrification detected after opening should not be used.
- The applied surface should be moistened for 5 days, direct sunlight, wind, frost, etc. effects should be protected.
- After the application, the surface must be protected from mechanical loads for at least 48 hours.
- If the applied surface will be exposed to UV or pedestrian traffic, after curing, screed should be protected by ceramic coating.

## SAFETY INSRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).
- Products manufactured by our company are tested in our quality laboratory for waterproofing performance tests using the Karsten tube method according to EN 1323, as required by the relevant standards. However, if the product performance is to be tested under field conditions, the product should be allowed to cure for at least 7 days, and once the field is filled with water, the test duration” should not exceed 24 hours.

**Note:** Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

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