

Crystallized Waterproofing Product That Can Be Applied in Negative and Positive Directions

PRODUCT DESCRIPTION

Cement based, applicable for both positive and negative hydrostatic pressure; It is a crystalline waterproofing material that becomes reactive with water and moisture. With its formula consisting of active chemicals and fine aggregate, it reacts with water, moisture and free lime in the concrete, regardless of old or new, and penetrates deeply into the concrete. It forms insoluble crystals in capillary spaces and pores, preventing water permeability.

FEATURES

- It is suitable for use in drinking water tank insulation.
- It is resistant to hydrostatic pressure.
- The active chemical compound with a crystallizing effect fills the capillary gaps in the concrete.
- It can be applied against negative and positive water pressure.
- It is easy and fast to prepare.
- It can be applied with brush and spray equipment.
- Working time has been extended.
- It provides permanent waterproofing with the crystals it forms.
- It creates a jointless, seamless, permanent, moisture and water-proof waterproofing layer.
- It is resistant to chemicals and salt solutions in the soil.
- Can be applied to damp surface.
- Provides high level of resistance to freeze-thaw cycle.
- Provides negative and positive insulation.
- It fills 0.5 mm wide cracks by forming crystals. It has a constantly active structure.

PRODUCT INFORMATION

Chemical Structure : Cement based/containing active chemicals
Appearance / Color : Powder / Gray

PERFORMANCE

(at 23°C, 50% relative humidity)

Powder Density	:	1,20 kg/ltr
Start of socket	:	30-60 Min
Coating on	:	7 Days
full cure	:	28 Days
Pot life	:	20-40 Min
serving temperature	:	-20+70 Degree

These values were obtained as a result of laboratory experiments carried out in our company at 23°C and 50% relative humidity, and are valid for the performance of finished applications at the end of the full drying period. The values may change as the temperature and humidity values in the construction site environment and the application surfaces and areas will vary.

204 PROCRYSTA NP



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USAGE AREAS

Positive Water Pressure:

- ü In sub-foundation and curtain concrete
- ü In water tanks, (positive application both inside and outside in underground water tanks)
- ü In swimming pools,
- ü In irrigation channels,
- ü In concrete pipes,
- ü In tunnels and culverts,
- ü In dams,
- ü Used in cisterns .

Negative Water Pressure :

- ü Internal insulation of basement walls and foundations,
- ü External insulation of water tanks that are not buried in the ground,
- ü In retaining walls,
- ü In tunnels and subways,
- ü On floors and horizontal joints,
- ü Used in elevator pits.

Application Equipment

Hand mixer - Brush - Trowel - Spraying equipment

PREPARATION OF THE SURFACE

The application surface must be cleaned of substances that prevent penetration such as dust, oil, tar, pitch, paint, silicone, curing material, detergent and mold oils. Segregations, static cracks and Tie holes in the concrete should be repaired with PROCRYSTA MORTAR 854 - Waterproofing High Strength Structural Repair Mortar containing active material. Horizontal and vertical cold joints should be chamfered with PROCRYSTA MORTAR 854. Moving cracks should be repaired with PROPOL MASTIC 1075 polyurethane mastic. Water leaking holes should be clogged with PROSTOP 250.

PREPARATION OF THE MORTAR

Mixing water should be added to PROCRYSTA NP 204 powder placed in a clean mixing container. A reverse process should not be performed and the amount of material that can be used within its pot life should be mixed. Mixing water should be added slowly and mixed with a mixer at 400 - 600 rpm for 3 - 5 minutes until a homogeneous and lump-free mixture is obtained. For use as sherbet, 25 kg of powder should be added to 7.5 liters of water. For use as a spread, the liquid mixture prepared by adding 25 kg of powder to 9 - 10 liters of water should be left to rest for approximately 3 - 5 minutes, mixed again for 30 seconds, and then the material should be ready for use.

APPLICATION INSTRUCTIONS

On foundation side and curtain concrete surfaces; Before waterproofing old and new concrete, the application surface must be saturated with water and kept moist during application. The liquid mixture prepared by adding 25 kg of powder to 9 - 10 liters of water should be applied to the surface with a brush, with a total consumption of 2 kg/m², 1 kg/m² for each layer. The second layer should be applied within approximately 3 - 4 hours after the first layer has set but is not yet fully dried. should be implemented. After the application is completed, spray curing with water is recommended for 3 - 4 days.

CONSUMPTION

2-3 kg/m² depending on water pressure.



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LIMITATIONS

Application should be made between +5 C and +30 C. Application should not be made in hot, rainy and windy weather. Application should not be made on surfaces at risk of frost. The product should be protected from rain, water, frost and negative external factors until it is cured. Avoid application in areas that are frozen, at risk of freezing within 24 hours, or exposed to direct sun and wind. Stir frequently to maintain the consistency of the mortar during application. Since water pressure accelerates crystal formation and penetration into concrete, structures such as water tanks should be filled with water 24 hours after the final coat application. Complete waterproofing is usually achieved within 5 - 7 days after application. Earth filling is done at the end of this period. The formation of minerals in concrete and the depth of penetration into the concrete depend on the quality of the concrete, the capillary void ratio in the concrete and the absorbency of the surface. The better the water curing is done, the better the material penetrates into the concrete. No other curing liquid other than water should be used. The crystals formed on the negatively insulated curtain concrete surface may create a very undecorative appearance. To prevent this, plaster should be applied on the last coat while it is still wet and the paint should be applied over the plaster. If ceramic or tile application is to be made, ceramic adhesive should be applied directly onto the freshly applied surface. If these applications are to be made on a cured surface, the crystals on the surface should be wiped with diluted hydrochloric acid or bleach solution, and then plaster should be applied on it. This wiping process only destroys the crystals on the surface, it does not damage the crystals that have penetrated into the concrete.

PACKAGING

In 25 kg kraft bag (64 pieces on pallet, 1600 kg)

SHELF LIFE

It is 1 year from the date of production in its original packaging in moisture-free and dry environments (temperature between +5 C and +25 C). The mouth of the containers should be tightly closed when not in use. It should be kept away from moisture.

STORAGE CONDITIONS

It should be stored in its unopened original packaging in a moisture-free, dry and cool environment (temperature between +5 C and +25 C). It should not be left under direct sunlight.

SAFETY

Since it is cement based, do not breathe the dust, use a mask. Avoid contact with skin and eyes. Use protective gloves, glasses and clothing. In case of eye contact, rinse with plenty of water and consult a doctor immediately. Keep out of reach of children. In case of skin contact, wash with plenty of water and soap. Do not swallow. For detailed information and recommendations, please refer to the Safety Data Sheet.

LEGAL NOTES

Our technical data sheet is DEKOSTAR LTD., which has a wide range of usage areas. ŞTİ. It has been prepared to give general information about the products and to show the technical features of the products. It is a recommendation and this information is about the correct application, ground, air, equipment, etc. It is valid under the conditions and when the products are stored under the recommended conditions. DEKOSTAR LTD. ŞTİ. Since it cannot control the conditions under which its products are used, it does not accept any responsibility for the application result and does not guarantee it. The user of the product must test the suitability of the product before using it.

DEKOSTAR San. will be liable for application errors that may occur if the product is used for purposes other than its intended purpose or if the application conditions and recommendations stated above are not followed. and Tic. Ltd. Ltd. is not responsible and has the right to change the features of its products without notice. Users should always refer to the latest edition of the Product Technical Data Sheet for the relevant product.



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