

ACS SEAL CRYSTAL[®]

Cement Based, Applicable On Either Positive Or Negative Side Crystallized Waterproofing Material



■ Description

ACS SEAL CRYSTAL[®] is a one-component cementbased capillary crystalline waterproofing material that is applied against surface waters in old and new structures from negative and positive sides.

■ Place of usage

- Waterproofing of foundations and curtain walls.
- Interior and exterior areas for vertical and horizontal applications.
- Elevator pits.
- Tunnels.
- Supporting walls.
- Supporting walls, dams and harbors.
- Isolation of concrete floors in basement floors.

■ Consumption

First Coat: 1.00 kg/m² powder product Second Coat: 1.00 kg/m² powder product.

■ Advantages

- Easy to prepare and apply.
- Must be mixed with water only.
- The active material of the product reacts with the water inside the concrete and crystallized in the capillary gaps.
- This provides waterproofing.
- This is the most economical solution on the negative dimension.
- Resistant to negative and positive water pressure.
- It can be used on drinking water tanks.
- It fills the capillary gaps with permanent crystals and make waterproofing.
- It protects the concrete and fittings from the corrosive effects of water.
- It has water vapor and air permeability.
- The formed crystals do not be resolved, removed from the surface.

TECHNICAL CHARACTERISTICS

Structure of Material	Special Cement, Mineral Fillers, Polyme.	KR 
Color	Grey	
Surface Temperature	+5°C +30°C	
Service Temperature	-20°C +80°C	
Surface Drying	3 - 5 Minutes	
Use Time	20 Minutes	

The above figures are valid for 23 °C and intended as a guide only and should not be used as a basis for specifications.

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APPLICATION PROCEDURE / PREPARATION OF SUBSTRATE

Cement based surfaces of the structures contacting with water have to be strong, dry, bearing, dustless, clean, and also in balance. Surface should be cleaned thoroughly with water jet, all kinds of oil, grease, rust and paraffin residue which will weaken the adherence and pores should be opened in order to increase adherence by taking loose particles on the surface. Iron and wooden wedges must be removed from the surface. Any water leakages, non-uniform surface and corner edges must be repaired with suitable prepare mortar, minimum radius of 4 cm with **ACS MORTAR®** group. Substrate must be dampened before application. If the coating loses its water rapidly, this means that substrate is not dampened enough.

MIXING

ACS SEAL CRYSTAL® powder in a clean mixing container. Add recommended amount of water while mixing with a 400-600 RPM mixer at least for 3-5 minutes until a homogenous and uniform mixture is obtained. After waiting for 3-5 minutes, mix again for approximately 30 seconds and it becomes ready to use.

MIXING RATIOS

ACS SEAL CRYSTAL®	Using a Brush
Mixture Water Amount (One bag for 20 kg of product)	6,00 liter
Mixture Density	2,00 kg/liter

APPLICATION METHOD

Apply **ACS SEAL CRYSTAL®** with brush on the dampened substrate. When the first layer sufficiently cured apply the second coat. This period may change between 3 to 5 hours depending on environmental temperature. Application period between each layer must be less than 6 hours.

CURING

After **ACS SEAL CRYSTAL®** application, material must be protected from losing its water rapidly. Do not use curing compounds. **ACS SEAL CRYSTAL®** must be kept wet for 5-7 days. This application will provide crystallized happened. Water tanks should be filled after 24 hours later, crystallized and penetration depth should also be increased.

TIPS TO NOTICE

- Wait for the appropriate ambient and substrate temperature if it is less than 5°C or more than 30°C
- **ACS SEAL CRYSTAL®** applied in +23°C gains echanic strength after 2 days, becomes impermeable to water after 7 days, and gains final strength after 14 days In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.
- Prepared material must be used in 20 minutes.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **ACS SEAL CRYSTAL®** is hardened it can only be removed from the surface mechanically.

PACKAGING

20 kg polyethylene reinforced kraft bag.

STORAGE

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages have to be stored by tightly sealing the bag/cover, and must be used in one week.

SAFETY

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Precautions Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. . Please look at the Material Safety Data Sheet for detailed information.

□ Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ** is only responsible for the quality of the product. **ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (06/2019)