

ARKIM ARSEAL CRYSTAL/3244**■ Definition**

Cement-based, single component, crystallized water insulation mortar that is resistant to negative and positive water pressures and capable of transferring into capillary breaks of the cement-based surfaces.

■ Area of application

-It is used in negative and positive water insulations of all new and old structurally strong concrete surfaces in the spaces listed below:

- Basements
- Swimming pools and water tanks
- Sewer system and wastewater treatment facilities
- Tunnels and bridges
- Elevator shafts
- Foundation, shear and retaining walls
- Wet areas like bathroom, shower, toilet.

■ Application features

- Application thickness: 2-3 mm
- Using time: max. 20 minutes
- Workable period: max. 5 minutes
- Time to wait between layers: 6 hours
- Time to wait for earth fill: 7 days
- Time to fill water tanks with water: Min. 7 days under positive pressure and min. 14 days under negative pressure.
- Time to commission: 14 days

■ Surface preparation

- The application surfaces must be cleared of loose layers, dust, dirt and oil decreasing the adherence.
- Clear the faulty areas on the concrete surface such as cracks, capillary cracks and segregation by opening them by breaking their surroundings.
- Apply ARKIM ARSEAL CRYSTAL to such opened and cleared areas as described below, and then repair them with ARKIM ARREPAIR THIN and ARKIM ARREPAIR THICK.
- Saturate the surface with water thoroughly before the application. Take care to keep the surface moist but not wet during the application.

■ Application conditions

- Ambient temperature should be between +5 °C and +35°C
- Do not apply on frozen, melting surfaces, or surfaces likely to freeze within 24 hours.
- Do not apply on surfaces under direct sun or strong wind, or hot surfaces.

■ Warnings and Advices

- Do not apply this product when it is too hot, under direct sunlight, under the weather conditions such as high wind, fog, high relative humidity, or when rain is anticipated.
- Pay attention to the product storing conditions. Do not keep the product in humid or very hot places.
- Since it contains cement, its dust must not be inhaled. Avoid contact with skin and eyes. In case of contact, wash your skin/eyes with plenty of water. Use protective equipment such as mask, gloves etc. during the works.

■ Application tools

Hand mixer, trowel, brush, roller

■ Application

- The container in which the mortar will be prepared must be clean and cleared of the remnants of the previous mixture.
- It is necessary pay attention to cleanliness of the water and materials used.
- Pour 20 kg powder mortar into 7-7.5 l water for brush application, or 12-12.5 l water for sprayer application, and mix until no lump appears.
- A low speed mixer must be used to obtain a homogeneous mixture.
- Stir the mortar frequently during the application to preserve its viscosity. If the mortar thickens, never add water, but instead, stir the mortar to ensure workability again.
- Do not prepare more mortar than you can consume within maximum 20 minutes. Discard the mortar the usage period of which is over.
- Apply the prepared mortar in 2 coats by means of brush or sprayer. Apply the second coat at 90 degrees to the first coat and when the first coat is sufficiently hard but still humid.

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-Keep the surface humid for 5 days after the application,
and prevent it from drying. Protect the surface against the

external impacts such as direct sunlight, wind, frost, etc.
throughout the abovementioned period. You can protect
the application surface from wind and direct sunlight by
means of a polyethylene cover.

-In case of surfaces that may be subjected to mechanical
impacts, a protective coat like ceramic must be applied on
ARKIM ARSEAL CRYSTAL.

-ARKIM ARSEAL CRYSTAL must not be left exposed in
areas open to foot traffic, but instead, it must be
protected with screed, ceramic coating or industrial floor
coating.

▪ **Consumption**

2-3 kg/m² (for 2 mm thickness)

• **Reference Standards**

-Ministry of Public Works Pos. No: 04.477/2

• **Packaging**

-20 kg Kraft bag

-Pallet: 80 pieces of 1600 kg in total

• **Storage Conditions**

-It is necessary to take care not to put more than 10
Kraft bags on top of each other in storage.

-This product must be stored in dry indoor areas away
from direct sunlight.

-Bags must be stored so as not to contact with the
ground in order them to be protected against humid.

-Under such conditions, the product can be stored for
12 months as of the production date.

-Inappropriate storage or exceeding the expiry date
may deteriorate the properties of the product.