

Acrylic based concrete curing agent

Description

Water-based, acrylic emulsion for protecting fresh concrete from quick evaporation of mixing water. It forms to the surface a membrane which:

- Reduces any possible drying shrinkage cracks.
- Reduces the setting shrinkage of concrete.
- Ensures the optimum strength development.
- Decreases the surface-dusting effect after the setting of concrete.
- Increases the resistance to frost.
- In case of subsequent layers on the concrete surface (e.g cement screed, plaster), there is no need of removing ISOCURE-A by water blasting, scrubbing etc.
- Eliminates the need for water curing or the covering with wet cloths.

When applied on existing hardened concrete floors or cement screeds, it seals and dustproofs their surface.

Fields of application

ISOCURE-A is used as anti-vaporous curing agent for fresh concrete and as a surface hardener for existing crumbled floorings and surfaces in order to increase their strength and wear resistance. Particularly suitable for applying on large surfaces of exposed concrete such as industrial floorings, parking areas, concrete slabs etc. It is also suitable for vertical surfaces.

Technical data

Form:	water based emulsion
Color:	white
pH:	7,0
Density:	1,00 kg/lit

Directions for use

1. As a curing agent for fresh concrete

ISOCURE-A should be thoroughly stirred before use and should be applied with spray in a uniform thin layer.

It is applied on the fresh-leveled concrete surface, after evaporation of the skin-deep water (after 30-120 min). In case of formed concrete, it is necessary the dampening of surface after the removal of formwork, then follows the spraying with ISOCURE-A.

2. As a surface hardener on existing floors

The surface must be dry and free of dust, grease, dirt etc.

For better impregnation of ISOCURE-A, the surface should be prepared by grinding and cleaning of dust.

ISOCURE-A is thoroughly stirred and uniformly applied on the substrate by spray, brush or roller until full impregnation.

For very absorptive surfaces it is usually required to apply a second layer after the first one has dried.

Consumption

150-200 g/m², depending on conditions during application.

Packaging

ISOCURE-A is supplied in plastic containers of 20 kg.

Shelf-life - Storage

12 months from production date if stored in original, unopened packaging, in temperature between +5°C and +35°C. Protect from direct sun exposure and frost.

Remarks

- During application the ambient temperature and the temperature of substrate should be between +5°C and +30°C.
- The successive layer can be placed when ISOCURE-A is completely dry.
- ISOCURE-A is almost transparent after drying. Usually it should be tried to the surface before the application, because it may alter the appearance of the surface.
- ISOCURE-A is not suitable for permanent immersion to water. The uneven surfaces should be properly treated with a suitable repairing material. Consult the Technical Support Department.

Volatile organic compounds (VOCs)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory g, type WB is 30g/l (2010) for the ready to use product.

The ready to use product ISOCURE-A contains max <30 g/l VOC.

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