Technical Datasheet

ISOCURE-A

Acrylic curing agent for fresh concrete

Description

Acrylic water-based emulsion formulated to protect fresh concrete from the quick evaporation of mixing water. It forms a membrane offering the following benefits:

- Minimizes the risk of drying shrinkage cracks.
- Reduces setting shrinkage in concrete.
- Ensures optimal strength development.
- Decreases surface dusting after the concrete has set.
- Increases resistance to frost.
- If additional coatings (e.g., cement screed, plaster, etc.) are to be applied to the concrete surface, there is no need to remove ISOCURE-A by water blasting, scrubbing, or other methods.
- Eliminates the need for water curing or covering with wet cloths.

When applied to hardened concrete floors or cement screeds, it seals and dustproofs the surface.

Fields of application

ISOCURE-A is used as an anti-evaporation curing agent for fresh concrete, and as a surface hardener for existing friable floors and surfaces, enhancing their strength and wear resistance. It is well-suited for large areas of exposed concrete, such as industrial floors, parking zones, concrete slabs, etc. It can also be applied to vertical surfaces.

Technical data

Form:	water-based emulsion
Color:	white
pH:	7.0
Density:	1.00 kg/l

Directions for use

1. As a curing agent for fresh concrete
ISOCURE-A should be thoroughly stirred before use and should be applied by spraying in a uniform thin layer.
It is applied on the freshly laid concrete surface, after evaporation of the skin-deep water (after 30-120 min). In case of pre-cast concrete, it is required to dampen the surface after removing the formwork, and then spray with ISOCURE-A.

2. As a surface hardener for 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.
ISOCURE-A is thoroughly stirred and uniformly applied to the substrate with a spray, brush or roller until full impregnation.
For very absorbent 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

- 20 kg plastic containers
- 220 kg drums
- 1,000 kg tanks

Shelf life – Storage

12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

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Remarks

- During application, ambient and substrate temperature should be between +5°C and +30°C.
- The successive layer can be placed as soon as ISOCURE-A is completely dry.
- ISOCURE-A is almost transparent after drying. It is recommended to try it on the surface before the application, because it may alter the appearance of the surface.
- ISOCURE-A is not suitable for permanent immersion to water. Uneven surfaces should be properly treated with a suitable repair 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 30 g/l (2010) for the ready-to-use product.
The ready-to-use product ISOCURE-A contains a maximum of 30 g/l VOC.

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