

AK-100



Acrylic-Based Liquid Curing Compound

Description

It is an acrylic-based liquid curing compound used after concrete, screed, plaster, and cement-based surface hardener applications. It forms a film layer on the surface, preventing the rapid evaporation of mixing water in fresh mortar, improving curing performance, and reducing shrinkage and the risk of cracking.

Advantages

- Solvent-free; suitable for indoor use.
- Forms a film layer on the surface, preventing rapid water evaporation and ensuring proper curing.
- Reduces shrinkage and the risk of cracking.
- Ready to use and easy to apply. Eliminates labor-intensive methods such as water curing, burlap, and wet coverings. Reduces labor and maintenance costs.
- Increases surface abrasion resistance and prevents dusting.
- Provides brightness and a lively appearance to the applied surface.
- Reduces water permeability of the surface.
- Improves the strength of concrete by ensuring proper curing.
- Enhances frost resistance.
- Cement-, gypsum-, and resin-based applications can be applied over it after curing.
- Low viscosity; suitable for spray application.

Areas of Use

- For curing vertical and horizontal structural elements in indoor and outdoor areas,
- On freshly poured concrete, surface hardeners, and all types of concrete surfaces,
- In airport pavement concrete applications,
- In industrial structures,
- In concrete road applications,
- In aircraft hangars, helicopter pads, and apron areas,
- In prestressed beams and piles, slope walls,
- On terraces, irrigation canals, and channel concrete,
- In all types of engineering structures such as highways, bridges, dams, tunnels, metros, residential and commercial buildings.

Surface Preparation

- The application surface must be clean and free of standing (free) water.
- In surface hardener applications, it should be applied after the final troweling.
- On horizontal surfaces, application should be carried out immediately after the bleed water has evaporated and all necessary surface finishing has been completed.
- On vertical surfaces, it should be applied after formwork removal.

Application

- The product should be mixed in its original container before application.
- Application with low-pressure spraying equipment is recommended.
- Alternatively, it can be applied with a roller or brush.
- The product must be applied uniformly and continuously over the surface; insufficient application will reduce curing performance.
- A second coat may be applied if necessary (on highly absorbent surfaces).

Consumption

- The consumption rate may vary depending on ambient temperature, wind, and humidity.
- Average consumption is 200–250 g/m².

Technical Properties

Color and Appearance	White liquid (transparent after drying)
Content	Acrylic resin-based, solvent-free
Type / Class	Class A / Type-1 (TS 10966:2017)
Density	1,00 ±0,05 g/ml
Viscosity	20 – 100 mPa·s
Flash Point	None
pH	7-9
Application Temperature	+5°C / +35°C
Drying Time (ASTM C 309)	Approximately 2 hours
Film Formation Time	30 – 60 minutes
Full Curing Effect	24 hours
HS Code (GTIP)	3824.40.00.00.00

Note: Values are based on +23 ±2°C temperature and 50 ±5% relative humidity.

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Precautions

- Do not apply on frozen surfaces or surfaces at risk of freezing.
- Protect from rain after application (at least 2–4 hours).
- Application must be carried out after all free water (bleed water) on the surface has completely disappeared.
- Do not apply before the finishing (troweling) process is completed.
- If a coating will be applied over the cured surface, proper surface preparation (sanding, mechanical cleaning, etc.) must be performed.
- Ensure that spraying equipment is clean.
- Clean spraying equipment immediately after application.
- Apply carefully under environmental conditions that may cause rapid evaporation, such as high wind, low humidity, and high temperature.
- Do not apply if there is a risk of rain; protect the surface from rain for at least 2–4 hours after application.
- Do not apply at temperatures below +5°C or above +35°C.
- Surfaces treated with curing compound must be properly prepared before applying coatings such as ceramic, epoxy, or polyurethane.
- The product is intended only for curing purposes; it is not a surface hardener or coating material.
- Application performance may vary depending on concrete quality, environmental conditions, and application technique
- A preliminary test is recommended for critical applications.

Storage and Shelf Life

- 12 months from the date of production when stored in original, unopened packaging, in dry and moisture-free conditions, protected from direct sunlight, at temperatures between +10°C and +35°C.
- Keep the container tightly closed when not in use.
- Do not stack pallets on top of each other.

Safety Precautions

- Keep out of reach of children.
- Do not eat or swallow.
- Keep away from foodstuffs.
- Avoid inhalation and direct contact with the body.
- May cause allergic reactions.
- In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice.
- It is recommended to use gloves, goggles, and protective clothing during application.
- Wash hands thoroughly with water after application.
- For detailed safety information, refer to the Material Safety Data Sheet (MSDS).

Packaging

- 25 kg plastic drum
- 200 kg drum
- 1000 kg IBC

Cleaning of Tools

All tools should be cleaned with water immediately after application.

Quality Certificates

- CE
- ISO 9001
- ISO 14001

