AK-300

Solvent-Based Acrylic Curing Compound

Description
A solvent-based, acrylic curing compound used after concrete, screed, plaster, and cementitious surface hardener applications. It forms a physical film layer on the surface, mechanically preventing the rapid evaporation of mixing water in fresh mortar, enhancing curing performance, and reducing shrinkage and the risk of cracking.

Advantages
- Compared to other curing compounds, it forms a denser and more impermeable film, preventing rapid water evaporation and ensuring proper curing.
- Has high penetration capability.
- Reduces shrinkage and the risk of cracking.
- Ready to use and easy to apply. Eliminates labor-intensive methods such as water curing, burlap, and hessian coverings, reducing labor and maintenance costs.
- Increases the abrasion resistance of the surface and prevents dusting.
- Provides a glossy and vibrant appearance to the applied surface.
- Reduces water permeability and improves freeze-thaw resistance.
- Enhances the strength of concrete by ensuring proper curing.
- Cement-, gypsum-, and resin-based applications can be applied over it after curing.
- Low viscosity; can be applied by spraying.

Areas of Use
- Should be preferred for outdoor concrete applications; if applied indoors, appropriate ventilation systems must be used.
- Particularly effective in hot, windy, and low-humidity environments.
- Suitable for fresh concrete, surface hardeners, and all types of concrete surfaces.
- Used in open-area concrete applications exposed to air circulation.
- Suitable for industrial structures.
- Used in concrete road applications.
- Applicable in aircraft hangars, helicopter runways, and apron areas.
- Used for prestressed beams and piles, and retaining slope walls.
- Suitable for terraces, irrigation channels, canals, and precast channel concrete systems.
- Used in all types of engineering structures such as highways, bridges, dams, tunnels, metro systems, 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	Light yellowish liquid
Content	Solvent acrylic based
Type / Class	Class A / Type-1 (TS 10966:2017)
Density	0,90 ±0,05 g/ml
Viscosity	10 – 50 mPa·s
Flash Point	+80°C
pH	Not applicable (solvent-based)
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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Hammerfast®
Construction Chemicals

AK-300

Solvent-Based Acrylic Curing Compound

Precautions

- The product is flammable and must be kept away from fire and sparks.
- Adequate ventilation must be ensured during application; solvent vapors must not be inhaled.
- Caution should be taken when used in enclosed areas.
- Do not apply on frozen surfaces or surfaces at risk of freezing.
- Protect the applied surface from rain for at least 2–4 hours after application.
- Application must be carried out only after surface bleed water has completely disappeared.
- Do not apply before finishing the floating/troweling process.
- If coatings are to be applied over the curing compound, proper surface preparation (sanding, mechanical cleaning, etc.) is required.
- Ensure spray equipment is clean before use.
- Spray equipment must be cleaned immediately after application.
- Application should be carried out carefully under conditions that cause rapid evaporation such as high wind, low humidity, and high temperature.
- Do not apply in rainy conditions; protect the surface from rain for at least 2–4 hours after application.
- Application temperature must be between +5°C and +35°C.
- Before applying ceramic, epoxy, polyurethane, etc. coatings over cured surfaces, proper surface preparation is required.
- The product is intended only for curing purposes; it must not be used as a surface hardener or coating material.
- Application performance may vary depending on concrete quality, environmental conditions, and application technique.
- A preliminary test application 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

- The product is flammable and must be kept away from fire and sparks.
- Good ventilation must be ensured during application.
- Use in enclosed areas should be carried out with caution.
- Solvent vapors must not be inhaled.
- Keep out of reach of children.
- Must not be eaten or swallowed.
- Keep away from food and beverages.
- Do not inhale directly or allow contact with the body.
- May cause allergic reactions.
- In case of eye contact, rinse thoroughly with plenty of water and seek medical attention.
- Use protective gloves, goggles, and protective clothing during application.
- Wash hands thoroughly with plenty of water after application.
- For detailed safety information, please refer to the Material Safety Data Sheet (MSDS).

Packaging

- 17 kg plastic drum
- 180 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

9001:2015 14001:2015

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