



WATER BASED ACRYLIC CURING COMPOUND

Description:

CUR COM 500 is a water-based, styrene-acrylic copolymer emulsion curing compound designed to reduce rapid moisture loss from freshly placed concrete. The product forms a transparent membrane on the concrete surface, helping proper cement hydration and minimizing plastic shrinkage cracking.

Technical Properties:

Chemical Content	Styrene-acrylic copolymer
Appearance	Liquid
Color	Milky white
pH	8±1
Density (20 °C)	1.02 ± 0,02 g/cm ³
Solid content (%)	20 ± 1
VOC content	< 50 g/L
Freezing	0 °C

Advantage:

- Reduces water evaporation.
- Minimizes surface cracking.
- Improves early strength development.
- Easy spray application.
- Solvent-free.
- Forms clear, non-yellowing film.

Area of Use:

- Industrial floors.
- Road and pavement concrete.
- Airport aprons.
- Slabs and large surface placements.
- Hot and windy climate conditions.

Consumption:

150–200 g/m² depending on surface porosity and environmental conditions. When required, the Polystar Co. Technical Support Unit should be consulted.

Method of Application:

CUR COM 500 is applied directly by a brush, a roll or by spraying on the surface when the surface is started to become mat after fresh concrete is poured and leveling process is completed. It should be applied approximately 30-45 minutes after surface hardener process has finished depending on the ambient temperature. It should be applied after removing the moulds. Dust, dirt and other items on the existing surface that prevent bonding should be cleaned before the application.

Drying Time (at 20°C)

Touch dry: 30–60 minutes

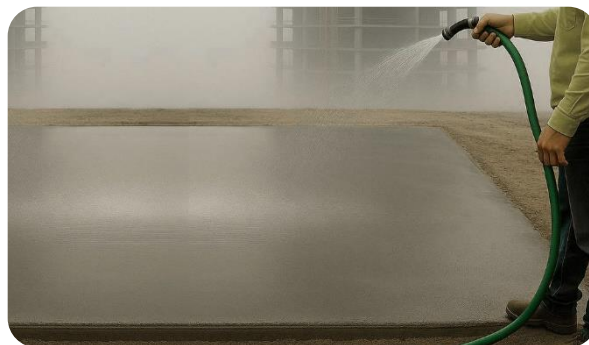
Film formation: 2–4 hours

Drying time may vary depending on temperature and humidity.

Standards: - EN 1504-2 - ASTM C 309

Precautions in Application:

- Apply immediately after final finishing when the surface water sheen has disappeared.
- Do not apply while free surface water is present.
- Stir the product thoroughly before use.
- Apply uniformly by low-pressure spray equipment to ensure continuous and complete membrane formation.
- Do not apply below the recommended coverage rate (150–200 g/m²).
- Avoid excessive application that may cause surface whitening or delayed drying.
- Do not apply during rain or when rain is expected.
- Avoid application under strong wind, extreme heat, or freezing conditions.
- Recommended application temperature: +5°C to +40°C.
- Do not apply to frozen concrete or when frost risk is present.
- For surfaces that will receive coatings, adhesives, or overlays, the curing membrane must be mechanically removed prior to application.



Cleaning:

Clean tools immediately with water. Dried material can only be removed mechanically.

Packing:

- 25 kg plastic drum - 250 kg drum - 1000 kg container

Storage and Shelf Life:

Must be stored at temperatures between +5°C and +45°C. Under proper storing conditions, the product's shelf life is 24 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

Security Information:

Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information.

