



## HYBRID (SILICATE+WAX) CURING COMPOUND

**Description:**

CUR COM 400 is a water-based hybrid curing compound combining silicate technology with alkali-stable wax emulsion. The product provides dual action curing;

- Surface membrane formation to reduce rapid moisture evaporation.
- Chemical densification through silicate reaction within the concrete matrix.

It is designed for general purpose concrete curing applications requiring both moisture control and surface hardening.

**Technical Properties:**

<b>Chemical Content</b>	Silicate with paraffin
<b>Appearance</b>	Liquid
<b>Color</b>	Yellow to waxy – Colorless
<b>pH</b>	11±1
<b>Density (20 °C)</b>	1.45 ± 0,02 g/cm <sup>3</sup>
<b>Solid content (%)</b>	20 ± 1
<b>VOC content</b>	< 20 g/L
<b>Freezing</b>	0 °C

**Advantage:**

- Control the surface condition of slabs and foundation.
- Easy to dilute and used.
- Improved cement hydration.
- Give smooth with GEL surface with reducing shrinkage cracks..
- Reduced evaporation rate.

**Area of Use:**

- Slab or foundation, plain concrete, columns, tunnel box.
- Reinforced concrete.
- Silica fume concrete.
- Cementitious floor hardeners (after screening).

**Consumption:**

CUR COM 400 has the recommended coverage rate for dilute solution 4 m<sup>2</sup> per liter. When required, the Polystar Co. Technical Support Unit should be consulted.

**Method of Application:**

CUR COM 400 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.

**Standards:**

- EN 1504-2 - ASTM C 309

**Precautions in Application:**

- Apply only to freshly placed concrete after final finishing operations.
- Do not apply over standing or bleed water.
- Surface must be firm enough to prevent damage during application.
- Stir gently before use; do not overmix.
- Do not dilute unless approved by the technical department.
- Apply in one continuous, uniform coat to ensure full coverage.
- Avoid excessive application that may cause ponding or uneven film formation.
- Ensure complete coverage; untreated areas may result in differential curing.
- Do not apply during rain or when rain is expected within 2–4 hours.
- Protect freshly treated surfaces from heavy rain or water exposure during initial drying.
- Avoid application under strong wind or extreme direct sunlight.
- Application temperature must be between +5°C and +35°C.
- Do not apply on frozen substrates or when ambient temperature is below +5°C.
- In hot, dry, or windy conditions, apply immediately to prevent rapid moisture loss.
- Shake or mix material if slight phase separation occurs before use.
- Perform a small test area before large-scale 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.

