

# COSTAR CONCRETE CURE 10

## Concrete Cure 10



### PRODUCT DESCRIPTION

COSTAR CONCRETE CURE 10 is a dual-purpose, clear silicate-based coating designed for curing and sealing new concrete and sealing existing concrete. When applied over freshly placed concrete, Costar Concrete Cure 10 eliminates the need for moist curing and improves the strength and durability of the concrete surface. Its efficient formulation facilitates sustainable curing/hardening and sealing of fresh or hardened concrete.

### FEATURES

- Excellent moisture escape resistant
- Clear coating appearance leaving no stains over substrate.
- Sustainable curing of freshly placed concrete
- seals all types of concrete surfaces

### APPLICATION AREAS

- Can be applied to both fresh and Hardened concrete surfaces of both pre-cast and cast in place concrete.
- Can be applied for use in sealing of concrete surfaces.
- Can be applied to both horizontal/vertical old or new concrete surfaces, in areas where a hard surface with light to moderate abrasion resistance is required e.g. warehouses, industrial plants, stores, shopping malls, parking structures, service stations, hangars etc
- Can be used in both interior and exterior areas.
- Can be used on Prefabricated concrete elements equipped with dust-proofing measures to safeguard against the intrusion of foreign particles.

### CURING

COSTAR CONCRETE CURE 10 promotes proper curing by retaining moisture in freshly placed concrete, eliminating the need for water curing. It is ideal for preventing premature drying in warm, dry or windy weather. Properly cured concrete will obtain higher strengths, have increased wear resistance, improved durability and reduced shrinkage cracks.

### SURFACE PREPARATION

- Surface must be cleaned from all loose particles, dust, grease, oil, scale and rust.
- The curvatures/slopes on horizontal and vertical surfaces should be leveled with a bedding/Costar Repair Mortar.
- When used as a sealer only, the surface should be clean, slightly porous and able to accept additional sealer.
- Oil stains, dirt and other surface contaminants must be removed.

### APPLICATIONS INSTRUCTIONS

- COSTAR CONCRETE CURE 10 is ready to use and should be applied after concrete surface finishing, when the new concrete has hardened and the surface sheen has disappeared.
- Using a garden sprayer, apply 2 thin layers at right angles to one another.
- Apply evenly to obtain coverage of 200 ft<sup>2</sup>/gal (4.9 m<sup>2</sup>/L).
- Use a brush to spread excess and remove puddles.
- Clean application tools with water immediately after use
- Even application is extremely important with colored concrete.
- Uneven application of COSTAR CONCRETE CURE 10 will result in uneven color



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### TECHNICAL PROPERTIES

Packaging	20ltrs
Appearance	Transparent Clear Liquid
Shelf life	12 months from date of production
Storage condition	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.
Base Substance Formulation	Silicate based acrylic copolymer
Solid content	22%
Re-Coat time	~ 2–4 hours
Applicable Standard	ASTM C309 Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
Density	~1.1 kg/l (at +20 °C)
Relative Air Humidity	100 % max.
Substrate Temperature	+5 °C min. / +35°C max.
Substrate Moisture Content	can be utilized on fresh concrete, with the absence of bleed water.
Tensile Adhesion Strength	4.8 N/mm <sup>2</sup> (EN 1542)
Touch Dry	Approximately 2-4 hours at +20 °C
Resistance to Impact	58 Nm (class III: ≥ 20 Nm) (EN 6272-1)
Abrasion Resistance	51 mg or 81.5 % increase in abrasion resistance compared to untreated sample (EN 5740-1)
Penetration Depth	5.3 mm (EN 1504-2)
Curing compound	1–2 coats
Hardener / Sealer	1–2 coats
Consumption	4–7 m <sup>2</sup> /l/coat

#### CAUTION

- Do not use this product on non- porous, sealed or painted surfaces.
- Do not leave puddle.



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### STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

### LIMITATIONS

- Apply when concrete surface temperatures are 40°F (4°C) and rising.
- Provide adequate ventilation in enclosed areas to facilitate proper drying
- Do not puddle

### HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

### ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

### LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.