



CP 3 E

Solvent Free Epoxy Primer

Pack Size
15Kg

TDS Technical Data Sheet



Product Description

CP 3E is a high-performance, two-component solvent-free epoxy primer designed for use with CLI polyurethane screeds and self-smoothing epoxy floor coatings. This primer seals substrates and acts as an adhesive bridge, ensuring excellent bonding for both internal and external applications. It is suitable for use with CLI's polyurethane, epoxy, and cement-based systems, and can be applied on new or existing concrete surfaces. When surfaces are very porous, multiple coats of CP 3E may be necessary to achieve optimal bonding. For substrates with a relative humidity (RH) above 75%, it is recommended to use CLI DPM Surface Damp Proof Membrane. For particularly smooth substrates, the surface of CP 3E should be seeded with fine aggregate immediately after application to facilitate the installation of resin screeds and toppings.

Features

- Two-component, solvent-free epoxy primer
- Easy application
- Suitable for internal and external use
- Seals substrates and acts as an adhesive bridge
- Compatible with CLI polyurethane, epoxy, and cement-based systems

Surface Preparation

The concrete or screed substrate must be hard, sound, and free of dust, paint, lime coatings, plaster, curing agents, laitance, adhesive residues, and other materials that could inhibit adhesion. Use a degreaser to remove polish, wax, grease, oil, and similar contaminants before mechanical preparation. Contaminated concrete surfaces should be mechanically prepared using scabbling, grinding, or shot blasting, followed by thorough vacuuming before applying CP 3E. Weak or overwatered concrete surfaces must be prepared down to sound, solid concrete. Any joints or cracks in the concrete base where differential movement is anticipated should be carried through to the finished surface and properly sealed. New concrete slabs must cure for at least 14 days before application.

Mixing

Stir the individual components of CP 3E thoroughly before mixing. Pour the entire contents of Part B into Part A and mix for at least 3 minutes using a heavy-duty, slow-speed drill and spiral paddle. Pour a portion of the mixed product back into the Part B container to activate any residue, then return it to the main mixing vessel and re-mix for 30 seconds. This method ensures product consistency and facilitates easier waste disposal by curing any residual resin in the containers.

Application

Once mixed, the material should be immediately spread over the floor to avoid self-heating in the container, which reduces working time. Apply using a brush or short/medium pile roller. Multiple coats may be required to achieve a uniform coating and to compensate for surface porosity variations. All movement joints in the subfloor must be carried through to the top layer and properly sealed.

Product Data Sheet

CP 3 E

July 2024, Version 01.001

Construction joints and cracks not subject to movement may be overlaid, but any floor movement will reflect through the system. Isolation joints should be considered in areas where high thermal movement is expected, such as around ovens and freezers.

Physical Properties

Working Time	50 minutes
Walkability	24 hours
Curing Time	7 days
Bond Strength:	> 2.5 N/mm ²
Mixing Ratio	As specified on the container

CP 3E should be allowed to cure for approximately 24 hours at 27 ± 1°C before the final floor finish is installed.

Coverage Estimates

Approximately 20-25 m² per coat, depending on substrate conditions. Actual coverage may vary based on application technique and substrate characteristics.

Storage and Shelf Life

Store CP 3E in dry conditions. The product has a shelf life of at least 12 months in its original, unopened containers.

Maintenance of Resin Floorings

To maintain the appearance and performance of the flooring, it is important to follow a regular cleaning regime. Mechanical scrubbing with appropriate brushes and clean water rinsing, incorporating wet vacuuming, is the most effective method (using water temperatures up to 50°C for epoxy systems). Avoid using mops and buckets, as this method is not appropriate for resin floors. Heavily trafficked areas require more frequent cleaning. Use only neutral or low-alkali detergents recommended for resin flooring, and ensure proper dilution. Avoid using cleaners that leave an oily or slippery residue.

Note: Phosphoric acid-based cleaners can damage epoxy resin materials, and hypochlorite-based materials can cause bleaching. Undiluted cleaning chemicals can stain or damage resin floors. In food preparation and high hygiene areas, pressure washing with a bactericide at 60°C to 80°C or steam cleaning should be used (for steam cleaning, a 9mm thickness of CLI CRETE Heavy Duty Polyurethane Screed is recommended).

Spillages of chemicals, especially corrosive ones, should be cleaned immediately to minimize the risk of damage or discoloration. Drip trays should be used if necessary. Allowing spillages to dry can result in higher concentrations of the chemicals, potentially leading to discoloration or early failure. Dried deposits of mineral-based cleaners can be difficult to remove.

Any mechanical damage to the floor surface should be repaired promptly to prevent further damage and liquid penetration along the bond line. Thin coatings may need periodic overcoating, particularly in high-traffic areas.

Pack Size

15Kgs



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.