CCI NEOCRETE PRIMER

Epoxy Resin-based Solvent-free Penetrating Primer

Description

CCI Neocrete Primer is a low viscosity, solvent-free, penetrating, two-component epoxy-based primer for concrete floors and walls generally used prior to applying range of high build coatings like polyurethane and polyurea coatings and SPF.

Pack A: Resin, Pack B: Hardener

Domains of Application

CCI Neocrete Primer is primarily designed for priming concrete and cement-sand mortar surfaces prior to application. This can also be used as sealer coat for concrete floor to make it dust-free, nonabsorbent, easily cleaned surface where only foot traffic is present.

Advantages

- ✓ Excellent surface penetration promotes very good bonding between concrete and subsequent layer
- ✓ Can be applied by brush or roller
- ✓ Very good moisture-barrier property
- ✓ Green product, no VOC

Indicative Characteristics

Appearance of cured film	Transparent
Specific gravity at 27°C	1.08 ± 0.03
Solid content, % (w/w)	> 98
Mixing Ratio, Pack A: B (by weight)	2: 1
Pot life, minutes at 27°C, 100 g mass	40 to 50
Application Temperature, °C	5 to 40
Coverage (Theoretical)	0.2 kg to 0.3 kg/m^3 per coat depending on surface porosity
Initial cure at 27°C, for pedestrian traffic	After 24 hours
Pull-out bond strength at 7 days, N/mm^2	2 (minimum) or concrete failure
Slant-shear bond strength at 7 days, N/mm^2, ASTM C882	2.8, concrete failure
Full cure, days	7

Method of Application

Surface Preparation

It is most important to ensure that thorough surface preparation is undertaken prior to application of the **CCI Neocrete Primer** coating.

Ensure the concrete is at least 28 days old and sound. Oil, grease, mould release agent, curing membrane, and such other contaminants must be removed by mild detergent and water, and by thoroughly scrubbing with a soft brush. If the wall surface is damp or water is seeping out, it is necessary to stop the leakage before coating. For advice on the appropriate method for the site situation, contact CCI Technical experts.

It is important to note that the final finish obtained is entirely dependent on the surface finish of the substrate. Where a hygienic surface is critical such as in potable water tanks and food industries, even out all unevenness such as blowholes, pin holes and other surface defects with Epoxy putty before application of coating.

Temperature Requirements

Substrate temperatures: 15°C to 35°C
Material temperatures: 15°C to 30°C

Very low or very hot temperatures will make application more difficult and careful consideration should be given to storage of materials. In cold weather conditions, precondition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20°C to 25°C will reduce the possibilities of flash/slow setting and other defects.

Mixing

A suitable power-driven mixer / stirrer is recommended for uniform mixing of **CCI Neocrete Primer.** Stir the base and hardener separately. Add hardener into the base and stir well till a uniform colour is achieved. Wait for 5 minutes for induction and to release entrapped air from the epoxy mix. Remix the mass again before applying it. All packs are pre-weighed and ready for onsite mixing. Do not use a fraction of any pack. Always use whole packs for the best results.

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Application

The product may be applied by a soft nylon brush, roller, or airless spray machine. If the concrete surface is very porous, two coats may be required to seal all surface pores otherwise air bubbles may appear on the next coat. While application, the substrate temperature should be at least 5°C and 3°C above dew point but not above 40°C.

Packaging

3 kg kit. Pack A (Resin) – 2 kg, Pack B (Hardener) – 1 kg.

Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

Precautions

- ✓ Store the material at the 5°C to 40°C temperature range in a shaded cool place and keep it away from fire and any heated body. Clean all tools with Methyl Ethyl Ketone (MEK) or any standard solvent before polymerization starts.
- ✓ Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 5 to 8 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.
- ✓ Thixotropy or anti sagging property is greatly influenced with surface temperature.

Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

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