

CCI NEOTOP 1

Two-part Acrylic Polymer based Mid Performance Waterproof Coating

Description

CCI Neotop 1 is a two component, elastomeric, acrylic polymer modified cementitious waterproofing protective coating system in slurry form.

Advantages

- ✓ Develops excellent bond with most of the building materials
- ✓ Prevents peeling and blistering
- ✓ Arrests saltpeter and prevents penetration of salts into concrete and mortar
- ✓ Unaffected by chemical attacks ranging from mild acids and strong alkalis
- ✓ Highly durable in continuous wet service condition
- ✓ One time application, properties improve with age
- ✓ Versatile – can be used for waterproofing, bonding agent for old concrete to new concrete and repair mortar

Indicative Characteristics

Colour of Pack A (liquid)	Milky White
Colour of Pack B (Powder)	Grey
Colour of hardened coating	Cement-like Grey
Workable time, minutes, 27°C, 70% RH	~30
Permeability to water, as per DIN 1048 Part 5	Nil
% Elongation at 14 days, ASTM D 412	≥ 120
Tensile strength at 14 days, N/mm ² ASTM D 412	2 (minimum with fibre mesh)
Coverage	1.5 kg to 1.7 kg/mm/m ²
Mix Ratio (Liquid: Powder) by weight	1: 2
Static crack bridging capacity	2 mm (minimum)
Recommended film thickness	1 mm to 1.5 mm
Initial cure for light foot traffic at 65 % RH	12 hours
Full cure at 65 % RH	7 days

Domains of Application

- ✓ **CCI Neotop 1** is used as a waterproofing treatment for large roofs, basement rafts, against rising dampness, retaining structures, water bodies, reservoirs, balconies, bathrooms, sunken areas, fountains, dome structures, bridge decks, podium, and terraces. Also used as anti-carbonation coating.
- ✓ Damp patches on walls, to seal joints through which there is possibility of water ingress and in any other area, where a quick solution for waterproofing and damp proofing is required.
- ✓ **CCI Neotop 1** can be reinforced with fiber glass mesh.

Method of Application

Surface preparation

Prior to application of **CCI Neotop 1**, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign materials/loose particles, or any deposits of contaminants, which could affect the bond between the original substrate and the **CCI Neotop 1** system. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or any other approved method. Rectify depression/honeycomb (if any) in the surface, use **Neocrete APW** mortar before application **CCI Neotop 1**.

Mixing

CCI Neotop 1 liquid part (polymer) is mixed with powder part in the ratio of 1: 2 by weight with a help of low speed (300 to 400 rpm) paddle mixer. The mix has to be stirred thoroughly, until a lump-free smooth slurry is obtained. Stand for 4 to 5 minutes after mixing to release air from the mix.

Application

All concrete surfaces (flat and vertical/inclined) shall be thoroughly pre-wetted to saturated surface dry condition; at the same time there should not be any standing water on the surface, or it should not be too wet prior to application of **CCI Neotop 1** system. Remix the content again with a spatula and start application by brush, roller, or any other suitable tools on prepared surface.

Minimum two coats are recommended. More coats can be provided depending on job requirements. The first coat should be allowed to air dry for 5 to 6 hours. Where more tensile strength is required, **CCI Neotop 1** coating should be reinforced with non-woven fiberglass mesh.

Curing

After application of **CCI Neotop 1**, initial air-drying shall be done for 3 to 6 hours. During this period, no water should be used for curing. If there is a chance of rain or heat (temperature above 40°C), windy atmospheric conditions within this period, protect the coating by covering it with waterproof plastic sheet. After a maximum period of 6 to 8 hours after the final application, moist curing shall be done for the next 2 to 3 days, either by spraying water or by using wet burlap. During this period, the **CCI Neotop 1** coating at no point of time should be left completely dry or submerged in water. After the moist curing the **CCI Neotop 1** coating shall be allowed to air dry for 3 days before submersion in water.

Packaging

12 kg kit. [Part A (Liquid) – 4 kg and Part B (Powder) – 8 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

- ✓ Reinforcement rods and other sharp materials should not be dragged over the **CCI Neotop 1** membrane, as this can puncture the same.
- ✓ **CCI Neotop 1** shall always be used in combination of Pack A and Pack B in recommended ratio for the indented purpose as mentioned above.

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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