

CCI NEOACRYLIC

Acrylic Polymer-based Elastomeric Waterproof Protective Heavy-duty Coating

Description

CCI NeoAcrylic is an acrylic polymer based elastomeric, waterproofing protective coating system. In addition to UV resistance acrylic polymer, **CCI NeoAcrylic** is designed with alkali-acid resistance micro-fibre enhance tensile strength proprietary additives to resist post growth of algae and fungus and selected pigments reduces surface temperature up to 15°C when exposed to direct sun light. The thixotropic nature of the coating helps to apply thick film to get desired film thickness (1 mm to 1.5 mm) with minimum no of coats.

Area of Application

- ✓ Waterproofing of old as well as new flat/slope concrete roof/terrace/podium
- ✓ Refurbishment of old concrete roof like brick bat coba, concrete screed/plaster, old acrylic coating, asphalt coating, old APP/SBS membrane, etc.
- ✓ Waterproofing/protective coating of metal/asbestos sheet roofs

Advantages

- ✓ Easy application; can be applied by brush or roller at site
- ✓ Excellent resistance to carbon dioxide, acid rain, and alkali solution
- ✓ UV resistance – does not get yellowing in sun rays exposure
- ✓ Desired high tensile strength can be achieved by providing single/multilayer glass fibre cloth
- ✓ Excellent resistance to dirt pick-up
- ✓ No VOC (Volatile Organic Compound)

Performance Parameters

Appearance of dry film	White, Grey Other colour may be available on request
Specific Gravity	1.3 ± 0.1
Drying time at 30°C, RH 65 %	12 hours
Solid content, % (W/W)	> 65
% Elongation at 14 days, ASTM D 412	250 (minimum)
Tensile strength at 14 days, MPa, ASTM D 412	2 and 5 (with fibre mesh reinforcement)
Hardness Shore A, ASTM D 2240	> 40

QUV Resistance, ASTM G 154, 1000 hours	No crack No colour change
Pull off Adhesion at 14 days, ASTM D 4541, MPa	> 1.5
Crack Bridging Capacity, mm, EN 1062	2 (No pinhole, no crack)
Full Cure, at 30°C, 60% RH	14 days
Fungi Resistance, ASTM D3273/3274	Passes test
Water Vapor Permeance, perm, ASTM D1653	13
Water Penetration at 5 Bar, DIN 1048 Part 5	Nil
Fire Resistance, EN ISO 11925-2	Passes test
SRI (Solar Reflectance Index) %, ASTM E 903 (CCI NeoAcrylic)	>88 (0-100 scale, Black Paint 0, Pure TiO ₂ 100)
Dirt Pick-up Resistance, ASTM D 3719	Passes test
Coverage, kg/mm/m ² (Theoretical, WFT)	1.2 to 1.3

Method of Application

Surface Preparation

Prior to application of **CCI NeoAcrylic**, 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 primer 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 CCI Neocrete APW mortar (1-part CCI Neocrete APW, 2-part cement, 4-part medium washed sand) and leave it for at least 24 hours before application of **CCI NeoAcrylic**.

Treatment of Cracks

If there is any crack up to 2 mm, clean those cracks with vacuum cleaner, to open cracks, pour CCI Neoacrylic P followed by a coat of **CCI Neoacrylic** along the crack line and leave it to dry for overnight.

Primer Application

Though CCI NeoAcrylic P adheres strongly with most building materials like cement concrete, mortar, bricks, woods etc., use of CCI NeoAcrylic P provides better performance of final coating system. Stir well the primer and apply it with soft nylon brush or roller over the dry surface. Generally, one coat is sufficient. If the surface is too porous apply two coats of primer. Time gap between two coats should be 2 to 3 hours.

Product Application

After the application primer coat allow it to reach touch dry for 2 to 3 hours. Stir **CCI NeoAcrylic** to a homogeneous smooth consistency and apply it horizontally with soft nylon brush, roller or squeeze to thickness of 500 to 600 microns in single coat. Allow it to dry for approximately 4 to 5 hours. When the applied coat becomes sufficiently dry (no footprint observed) apply the second coat vertically. Two coats are sufficient for general waterproofing (1 mm thickness) but for severe conditions, three or more coats are required to achieve desire results.

Precautions

- ✓ Reinforcement rods and other sharp materials should not be dragged over the primed surface, as this can puncture the same. **CCI NeoAcrylic** shall always be used without dilution.
- ✓ There should not be any rain during and after application of final coating for at least 6 to 8 hours.
- ✓ Not suitable for continuous immersion like basements, water tanks/reservoirs and any other liquid storage tanks.
- ✓ Do not apply coating thickness more than 600 microns in one go. For higher coating thickness apply multiple coat.
- ✓ 24 Hours Pond test shall be carried out after 72 hours of final coating application.

Packaging

20 kg buckets.

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.

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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