

Constrocare Coat Seal

Description

Is an acrylic polymer based waterproofing liquid and bonding agent for old and new cementitious substrates

Typical Applications

Bonding agent, waterproofing and RCC repairs.

Features & Benefits

- Offers an impermeable coating
- Excellent adhesion to cementitious substrates
- Can modify slurry/mortar/concrete for specific requirements in repair
- Un-affected by Ultra-violet & suitable for external and internal applications
- Reduces shrinkage in mortar and concrete
- Bonding agent between old and new concrete
- Allows trapped water vapors to escape thus preventing blistering and adhesion failure
- Prevents salt penetration into concrete and resists sulphate and chloride attacks
- Acts as an anti-corrosive for steel rebar
- Increases durability of waterproofing coating even in continuous contact with water

Technical Information

Shelf life	: 18 months in unopened condition
Nature	: White colored liquid
Base	: Acrylic Latex
Specific gravity	: 1.01 +/- 0.02

Coverage

Application Area	Coverage *
Waterproofing Coat	20-25 sq. ft. per Kg for double coat
Bond Coat	45-50 sq. ft. per Kg per coat
Repair Mortar	7-8 sq. ft. per Kg for 10 mm thickness

*Note: Actual coverage may be varying depending upon substrate condition

Packing

1kg, 5 kg & 20 kg

Areas of Application

- Waterproofing of terraces, roofs, masonry walls, sunken slabs, water tanks, basements, retaining walls, chajjas, etc.
- As a bonding aid for old and new concrete / mortar
- Useful as an additive for making repair mortars / concretes
- Water resistant renders
- Can be used as a base coat with cement before painting to improve impermeability, water repellency and anti fungal property of the painted surface (site trials are always advised before application for shade variations, if any)

Method of Application

As Waterproof Coating

- Surface for treatments must be thoroughly cleaned of all laitance, loose material, oils, grease, etc.
- Mechanical means such as wire brushing, sand blasting can be used and finally vacuum cleaned of all loose solids and liquids
- Surface must be thoroughly wetted with water to a state where it is saturated (SSD condition). But extra care must be taken such that there is no standing water present
- Visible cracks should be first treated with polymer modified mortar (PMM)
- Mix Constrocare Coat Seal and cement in 1:1 proportion by volume.
- Apply 1st coat when the surface is in a saturated surface dry (SSD) condition and allow it to dry for 4 to 5 hours.
- Apply 2nd coat at right angle to first coat with same proportion as first coat and allow it to 'air cure' for at least 72 hours.
- Protect the waterproof coating of Constrocare Coat Seal with a mortar screed of 15 - 25 mm thick, from damage. Plaster over vertical surfaces shall be done when the second coat is tacky to ensure better bond with the surface.
- Prior to the waterproofing treatment, all fine cracks up to must be suitably treated with polymer modified cement slurry. Cracks more than 2mm and separation gaps between concrete and masonry must be filled with Constrocare Coat Seal modified mortar. Consult Constrocare for large / structural cracks.

As Bonding Agent

- Prepare the surface as explained earlier
- Brush-apply a single neat coat with Constrocure Coat Seal mixed with cement in the ration 1:1 by volume over the clean surface. Allow this coat to become tacky and then apply fresh concrete or mortar. If the bond coat has dried, apply another to ensure effective bonding

As RCC Repair

- Check the soundness of the substrate with help of hammer and remove the hollow portion
- Cut the periphery of the surface into regular shape with the help of mechanical cutter for better bonding
- Check for the rusted bars; if the cross-section of the bars is less than 20% then replace the bar
- Expose the bars from the circumference by removing the concrete from entire periphery and remove all scale and corrosion deposits mechanically or ideally by sand blasting
- Apply suitable rust convertor on the entire periphery of the bar
- Wait for 30 minutes and then wash off the bar with the help of water jet
- Allow excess water to evaporate and let it come into SSD condition
- Mix Constrocure Coat Seal with neat cement in the ration of 1:1 by vol. Apply this coat on rebars and allow it to dry for 3-6 hours
- Again, brush-apply a single neat coat with Constrocure Coat Seal mixed with cement in the ration 1:1 by vol on the rebars and its adjoining concrete
- Allow this coat to become tacky and then immediately hand press polymer modified mortar. If the bond coat is dried, apply another to ensure effective bonding
- Prepare repair polymer modified mortar (PMM) in the proportions specified below. Select fine clean washed and dried sand for repair mortar. Use mechanical mixer for better consistency.
- Apply this mortar when the bond coat is tacky at a thickness up to 15-20 mm. Build up the required thickness in subsequent layers of 15-20 mm each over the final coat. Final layer can be finished with trowel

Polymer Modified Mortar (PMM)

Cement	50 Kgs
Sand	150 Kgs
Constrocure Coat Seal	8-10 Kgs
Water	Just sufficient to attain desired consistency

Precautions & Limitations

- Do not keep the mixed material open for more than 30 minutes.
- Do not dilute product with water at site
- Do not place new concrete or mortar if the bonding agent is dried
- Do not take up applications in direct heat, opt for cooler temperatures or in shade to apply.
- Pre wetting of surface with water is essential

Disclaimer:

These suggestions and data are based on information, which we believe to be reliable. They are given for information only and in good faith, but without guarantee as condition and methods of use of our products are beyond our control. We recommend that the user determines the suitability of our material and our suggestions before adapting them on a commercial scale