



ARMSTRONG CHEMICALS PVT. LTD., Bengaluru
An ISO 9001 Certified Company

ROOFBOND-FRC[®] 315

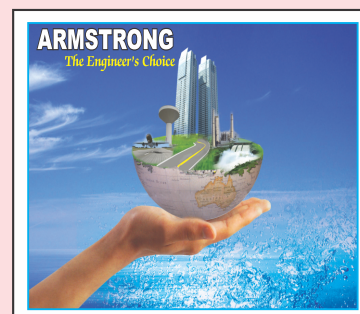
(Two part system of High Performance Acrylic Polymer Modified Elastomeric Cementitious Fibre Reinforced Waterproof Coating)

DESCRIPTION OF PRODUCT

ROOFBOND FRC 315 - Is a Two part system of High performance acrylic polymer Modified elastomeric cementitious Fibre Reinforced Waterproof coating

ADVANTAGES

- Hand or spray applied
- Easy to apply by brush or in thin trowel application
- High elastomeric, impermeable to water to withstand 10m to 12m hydrostatic pressure without any leakage, seepage and dampness.
- Very good adhesion with sound and prepared substrates. Provides very good bonding strength when we lay the fresh concrete / mortar on wet condition of the coat.
- Allows water vapour to escape from the structure
- Flexible enough to bridge hairline cracks / thermal movements up to 2mm.
- Non-corrosive to steel or iron (Complies with ASTM C 1202-97)
- Protects concrete against chloride and carbonation.
- Forms seamless coating without any joints, prevents water leakage.
- Non-toxic (Complies with BS 6920 Part-1 : 2000).
- Excellent U.V. Resistant.
- Excellent resistant to salt attack.



ROOFBOND FRC315 - Is used for external waterproofing in the following structures :

Basement, Terrace, balconies, Bridges, Retaining walls, Sea walls, Flat roofs, podiums etc., and internal waterproofing of Water Tanks, Sumps, Reservoirs, any water retaining structures, Sunken Portions, Bathrooms / Toilets etc.,

TECHNICAL DATA & MECHANICAL PROPERTIES

CHEMICAL BASE : Part - A : Liquid polymer and additive (1 Kg.)

Part - B : Portland cement/White Cement with selected aggregates and additives. (2Kg.)

Water penetration : (5 bar pressure) - Nil (BS EN 12390)

Tensile Strength : 5 - 5.5 N/mm² 1.650 to 1.75mm after 14 days exposure
(complies with ASTM D 412)

Bond Strength : 2.0 N/mm² at + 27°C (Complies with ASTM D 4541)

Elongation at Break % : minimum 150 (complies with ASTM D 412)

Crack bridging : No Cracking upto 2mm (Complies with ASTM C 836)

Hardness, shore A : 85 (Complies with ASTM D 2240)

Chloride permeability : Nil (Complies with ASTM C 1202-9)

Pot Life : 20°C (DIN 1048 : Part 5)

Set to touch 20°C : Within 2 Hrs.

Final set 20°C : 4-6 Hours

SUBSTRATE PREPARATION :

The Substrate must be structurally sound and free of all traces of contaminants, loose and friable particles, cement laitance, oils and grease etc., Surface cracks must be sealed before application.

Masonry surface should be fully cured for 28 days prior to application. The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, blast cleaning etc. Blast clean to remove all contaminants within the pores/blowholes.

APPLICATION METHOD :

Mix the ROOFBOND FRC 315 Part-A & Part-B in 1:2 ratio by weight adding the powder component slowly to the liquid, and add upto 20% water proportionate to the PART-A and apply by spray or by hand using a stiff brush. Applied in the same direction. Waiting time between coats 2-6 hrs depending on temperature and humidity. Apply the 2nd coat of ROOFBOND FRC 315 applied by brush in crosswise direction to the first application as soon as first coat has hardened. After second coat minimum one day time of air curing is suggested. Sprinkle coarse sand on wet surface of final coat or on wet surface condition of the final coat lay the screed / mortar for better adhesion. It is essential to air cure ROOFBOND FRC 315 immediately after application for a minimum of 3 to 5 days to ensure full cement hydration. Touch dry time 45 minutes (Complies with ASTM D 1640). Use the mixed ROOFBOND FRC 315 within 30 minutes @ 30°C. Clean all the tools and application equipment with clean water immediately after use.

COVERAGE : 1 kg/ 5 to 6 sft /2 coats at 1.55mm DFT. On well prepared smooth substrate the consumption would be less.

NOTE OF APPLICATION LIMITATIONS :

Avoid application in direct sun / or strong wind. Apply only to sound, prepared substrates. Do not exceed maximum layer thickness. For waterproofing or damp proofing application, always use 2 coats to give a total thickness of between 1.5 to 2.00mm. Protect freshly applied material from freezing conditions and rain etc., When used in contact with drinking structure, ensure that all associated ROOFBOND FRC 315 products and construction materials also comply with the local regulations for drinking water contact. If Concrete / Mortar finish is to be done above this coating, it is recommended immediately after application of second coat, for the best bonding and best results.

COLOURS AVAILABLE : Grey & White cement base. Can be mixed with any stainers or oxides with white cement based FRC as per our choice.

STORAGE : Store in original sealed packaging in dry and cool condition.

HEALTH AND SAFETY : For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety – related data.

PACKING : 3 Kgs. / 15 Kgs. / 30 Kg. including PART-A 1 part plus PART-B 2 parts and also available for Project works in bulk packing PART-A in 20, 30, 50, 100, 225 Kgs. Part-B available in bulk packing 25 & 50 kgs.

ARMSTRONG products are tested, approved and extensively used in the works of CPWD., State PWDs', Irrigation, Housing Boards, Thermal / Hydel Power Projects, Steel Projects, Road Projects, Water works Projects, MES, Railways & Scores of important projects Internationally.

Whilst **ARMSTRONG CHEMICALS PVT. LTD.** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



Manufacturers :

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Authorized Distributor / Stockist



TRUSTED AND ACCLAIMED FOR ITS
EXCELLENT DEPENDABLE MULTIPLE
ACTION PERFORMANCE OF WATERPROOFING

