



(Epoxy resin based high strength bonding agent)

DESCRIPTION OF PRODUCT

ROOFBOND EP is a two part component Solvent free Epoxy resin based bonding agent for Concrete, which produces excellent bond strength between Old concrete/cementitious materials to new concrete/cementitious surfaces with an unique feature of extended pot life.

TECHNICAL DESIGN OF THE PRODUCT

ROOFBOND EP is particularly design to use as an bonding agent with an extended pot life of 7-8 hours at 20° C and 5 – 6 hours at 30° C to use at conditions where specific structural designs demands of extra steel reinforcement and form work to be fitted.

FEATURES AND BENEFITS

ROOFBOND EP can be applied by brush, after thorough preparation of surface to achieve the following benefits.

- It has excellent bond strength which exceeds to tensile strength of the applied concrete
- Specific formulations allows it to applied on both dry and damp surfaces
- Unique feature of extended pot life enable to place the concrete upto 8 hours (@ 20° C) after applying the bond coat with ROOFBOND EP High mechanical strength for structural repairs and rehabilitations.
- High resistance against most of the Chemicals

TYPICAL APPLICATIONS

- Ideal to use for Bonding of new concrete/cementitious materials to existing concrete/cementitious surfaces.
- Used to achieve excellent bonding for Vertical as well as horizontal surfaces where concrete can be supported by form work.
- Best suitable for critical repairs and extensions of structural concrete in loaded structures like Dam piers, bridges, roads, factories, buildings and other relevant concrete structures.
- Ideal to use at the places where specific designs of extra steel reinforcement and form work is required.

TECHNICAL PROPRTIES

The following results were obtained after tests has been conducted as per the standards of BS 6319 at 30°C

1	Nature of Product	Two component
2	Mixing Ratio	Base (Part - I) : Hardener (Part - II) 65 : 35 (1 : 0.5)
3	Pot life	1 ½ to 2 hours
4	Over coating time	6 to 8 hours
5	Hardness time	48 hours
6	Compressive Strength	52 N/mm2
7	Flexural Strength	36 N/mm2
8	Tensile Strength	25 N/mm2
9	Shear Strength	20 N/mm2
10	Chemical resistant	Highly impermeable to most of the Chemicals

SURFACE PREPARATIONS

The surface which has to receive the ROOFBOND EP must be firm, clean from dirt, dust, grease and oil. Use appropriate cleaning agents, wire brushing and water washing the area for removing contaminations on the surface, but do not allow the water to collect on the surface. Roughed / laitance if any shall be removed by scabbing of the effected area until to achieve sound substrate or using detergent scrubbing or by steam cleaning.

MIXING Take a empty container to pour contents of base (Part-I) then pour the contents of hardener (Part-II) and mix thoroughly and homogenously with a low speed mechanical stirrer for about 3 minutes, until to get a uniform colour of mix.

INSTRUCTION AT ABNORMAL TEMPERATURES

Temperature above 35°C, the materials should be placed under the shades before mixing, at down to 5°C components should be warmed in hot water before mixing and to accelerate strength and development.

PACKING : 1, 1.5 & 15 Kgs.

COVERAGE ROOFBOND EP when applied with brush will covers 2 to 2.5 Sq. Mtrs. area approximately, it may be varies as per the smoothness of the surface and porosity to Abe covered.

SHELF LIFE One year from the date of manufacture if kept in cool and dry storage in the original, unopened containers.

CLEANING OF TOOLS & EQUIPMENTS

After completion of the application of ROOFBOND EP the used tools and equipments can be cleaned with thinner materials to avoid the wastage of the equipments.

PRECAUTIONS

- Make sure that the Part – I & Part – II should mix thoroughly and homogeneously.
- Use hand gloves while applying ROOFBOND EP but when it falls on the skin immediately washout the material with soap water.
- If the material is splashed on to the eyes wash the eyes immediately with plenty of water and take the medical advice.
- It is inflammable and No flames, fire should be allowed while applying the material.

ROOFBOND EP - is approved and extensively used in prestigious project works of CPWD, PWDs, APGENCO (Hydel /Thermal), Irrigation & CAD Dept, R&B, APSPH Corp Ltd, HMWS & SB, APSRTC etc.,

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.



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

