

Talrakepibond® EBA

(Long Potlife)

Two part high performance epoxy based bonding adhesive for elastomeric bearings



The Construction Alchemists

Description

Talrakepibond® EBA is a two component epoxy adhesive which is specially designed as an adhesive for concrete, brickwork, masonry, elastomeric bearings and steel. It is used to place horizontally between concrete and bearing pads. The cured material provides excellent adhesive strength at the bond line.

Features & Benefits

- Supplied in two components with different colours to provide visual evidence of effective mixing.
- User friendly - Can be applied by brush or roller.
- Long enough pot life of the mixed material to allow adequate positioning and aligning time for bridge bearing installation.
- Reasonably good moisture tolerance.

Primary Application

Used as a bonding agent for placing of elastomeric bridge bearings. Also used as a bonding agent to achieve monolithicity across construction joints in concrete and precast units.

Technical properties

Compressive strength : 50MPa at 7days
(As per BS : 6319 - Part 2)

Tensile Strength : 20MPa at 7days
(As per BS : 6319 - Part 7):

Shear Strength : 10MPa at 7days
(As per BS : 6319 - Part 4):

Flexural Strength : 30MPa at 7days
(As per BS : 6319 - Part 3):

Pot life : 300mins. @ 20°C
90mins @ 30°C

Specification Clauses

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Application Instruction

Surface Preparation

The surface should be dry and free from all forms of contamination. Remove all loose material by 'grit blasting' or 'sand blasting' to clean concrete surface. For normal concrete wire brushing can be tried to remove laitance. The elastomeric bearings that are to be bonded to the concrete shall be cleaned to remove any coatings of oil, grease etc. This can be achieved by using wiping with a clean cotton waste soaked in a suitable solvent that does not react with the elastomeric bearing material. This will ensure maximum bond strength. Any undulations on the concrete surface shall be evened out using epoxy mortar Talrakresimix EP. The position of the bearing on the pedestal / pier shall be marked using a suitable marker to enable application of the bonding material.

Mixing

The mixing of Talrakepibond® EBA should be carried out with full packs only. Pour entire content of hardener into base container which has enough volume to mix both the components. Mixing shall be done using a slow speed resin mixer or by using a suitable hand tool. The base and hardener are supplied in different colours and mixing shall be continued until a homogeneous, uniform coloured mixed material is obtained without any streaks. The mixing time shall be generally 1 - 2mins.

Application

The concrete surface shall be cured for a minimum period of 28 days. Apply the mixed material within the pot life, in the delineated area and cleaned concrete surface using a lamb's wool roller or stiff bristled brush or a putty blade to a thickness of 250-500 microns to form a continuous layer. The application temperature shall be between 5°C and 35°C.

Allow the applied material to reach a tacky state before the bearing pad is placed on it. The bearing pad is positioned and aligned / leveled over the applied material and pressed gently downwards.

For overhead applications the bearing shall be held in position using a suitable fastener or an adhesive tape. It is a good idea to keep weight over the bearing to apply adequate pressure to achieve better bonding.

Cleaning

The tools used for application shall be cleaned using Talrasol GP.

Estimating Packaging

Talrakepibond® EBA is supplied in 1kg combo pack containing base of 0.644kg (0.523L) and hardener of 0.356kg (0.324L)

Coverage

Talrakepibond® EBA - 1kg Pack will cover 0.85m² @ 1mm thickness

Storage

Talrakepibond® EBA has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety instructions

Some people are sensitive to epoxy resin systems and may develop dermatitis on skin contact. Rubber gloves and/or barrier creams, protective clothing, goggles and respirator shall be worn while handling the materials. Sufficient mechanical and/or local exhaust ventilation shall be provided to maintain easy working conditions. If contact with skin or eyes occurs, washing with plenty of water is suggested. SOLVENT SHALL NOT BE USED. If irritation persists, seek immediate medical advice shall be sought. Smoking and naked flame should be avoided while using the materials

Fire

Talrakepibond® EBA is inflammable . No naked flames should be allowed near the site. Do not smoke during use.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

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Important note :

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Ref : TCC/TDS/AD05 - R0