

Talrakpolybond® EP

Two component, epoxy based bonding agent



The Construction Alchemists

Description

Talrakpolybond® EP is based on solvent free epoxy resin system contains pigments and fine fillers. It is supplied as a two part material in pre-weighed quantities for ready onsite mixing and use. Coloured components - white base and green hardener give visual evidence that adequate mixing is achieved.

Features & Benefits

- **More overlay time** : Enables to place the concrete up to 6 hrs after applying Talrakpolybond® EP, without risk of delamination.
- **High bond strength** : Bond strength is more than the tensile strength of good quality concrete.
- **Barrier coat** : Acts as a 'barrier coat' to the migration of chloride ions from host concrete.

Primary Application

For bonding new cementitious materials to existing cementitious surfaces. For use on horizontal surfaces and on vertical surfaces where mortar or concrete can be supported by formwork. Ideal for extensions and repairs to structural concrete in buildings, loading bays, bridges, roads, bonded or granolithic floor toppings etc.

Technical properties

Pot Life : 120mins @ 27°C

Full Cure : 3 days

Overlay time : Within 6 hrs

Compressive Strength : 50MPa @ 7 days

Flexural Strength : 35MPa @ 7 days

Tensile Strength : 20MPa @ 7 days

Slant shear strength : Min. 15MPa @ 7 days
(Failure away from bondline)

Design Criteria

Talrakpolybond® EP is designed with an overlay time of 6 hrs @27°C making it more suitable for use where additional steel reinforcement and form-work has to be fitted or where the temperature is high. The minimum application temperature for Talrakpolybond® EP +10°C. Consult Talrak for further information.

Specification Clauses

The bonding agent shall be Talrakpolybond® EP, an epoxy based two component resin system prepaced in distinct colours to give visual evidence for proper mixing. The bonding agent must remain in tacky state after application for a minimum period of 6 hours at 30°C. There shall not be bond failure of the specimen when tested by slant shear method to ASTM C 882 with M30 concrete.

Application Instruction

Surface Preparation

All surfaces to be treated must be firm, dust free and clean. All laitance must be removed by wire-brushing and water feeding. In some cases, the existing concrete must be chipped to a sound substrate. Surface should be washed thoroughly with water and dried before the application of Talrakpolybond® EP.

Mixing

The entire contents of the hardener can should be poured into the resin container and the two materials thoroughly mixed until a uniform colour is obtained. To facilitate application at temperatures below 10°C the separate components should be warmed in hot water both to a maximum of 25° C before mixing.

Coating

Talrakpolybond® EP should be brush applied to the prepared surface. The new concrete should be placed within 6 hours at 30°C to the Talrakpolybond® EP coated substrate, when it is in a tacky state.

Limitations

Talrakpolybond® EP must not be applied when the temperature is below +10°C. If any doubts arise concerning temperature or substrate conditions, consult Talrak office.

Estimating Packaging

Talrakpolybond® EP is supplied in 1kg and 2.5kg industrial packs

Coverage

≈ 2.1m²/kg. Actual coverage will depend up on the texture and porosity of the surface being covered.

Storage

Talrakpolybond® EP has a shelf life of 12 months @ 35°C 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

Contact with the skin should be avoided. In cases of contact with the skin occurs, it should be washed immediately with soap and water-not solvent. Gloves should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

Fire

Talrakpolybond® EP is inflammable. No naked flame 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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