



Technical Data Sheet

Description

TEK-BOND EP is a solvent-free epoxy bonding agent and adhesive containing acid resistant fillers and wetting agents; for the bonding of old concrete to new concrete/render. **TEK-BOND EP** is also used to protect reinforcing steel from corrosion and anti-chloride barrier and primer for concrete repairs. **Tek-Bond EP** does not shrink and can be applied on slightly damp concrete surface areas.

Advantages

- Ultimate bond strength, is greater than cohesive strength of concrete
- Moisture tolerant, can be applied on slightly damp surfaces
- Non-Shrinking
- High Chemical resistance
- High Durability
- Can be used in both internal and external areas

Uses

- Bonding old to new concrete
- Primer for Concrete Repair
- Corrosion protection for steel reinforcement
- Offshore and marine structures

Physical Properties*

PROPERTY	TYPICAL RESULTS
Compressive strength	>70 MPa
Tensile strength	>24 MPa
Flexural strength	>35 MPa
Slant shear Bond strength	>12 MPa

*The above properties are average laboratory values

Packing

Tek-bond EP is available in 1, 5 and 20 lt. drums.

Application Properties

PROPERTY	TYPICAL RESULTS
Application Temperature	5 to 35° C
Pot life	4 hrs at 25° C
Tack free time	5 hrs

Volatile Organic Content

VOC = 0 g/L

Theoretical Coverage

5 m² per liter

Practical coverage will depend on wastage and substrate profile

Shelf Life

12 months when stored in cool dry environment in factory packed unopened containers between 5o C to 25o C.

Installation Guidelines

Spraytek provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

Surface Preparation

Substrates must be structurally sound. Loose or unsound substrate should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The substrate must be prepared to create a 'key' for bonding by abrading the surface. New concrete should be cured until the shrinkage and moisture movement is minimum.

Mixing

Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill (350rpm) with an Coating Mixer Paddle for 3 minutes, or until both components have fully dispersed and are uniform in colour. Be sure to rotate the mixer throughout the drum.

Mix only full packs.

Application

Tek-bond EP may be applied evenly with a short pile brush or with a trowel. Place the screed /concrete or repair mortar when **Tek-bond EP** surface is still tacky.

DO NOT LET THE BONDING COAT DRY.

If the bonding agent dries out, apply a fresh coat.

Precautions

Do not add any thinner or solvent.

Do not apply in temperature below 5°C

Do not dispose into water drains.

Technical Support

Spraytek offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

Health & Safety

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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