

Technical Data Sheet

Description

Tek-Tile EP is a two component epoxy tile adhesive based on a high grade epoxy resin system with superior adhesion, high strength, chemical resistance and application properties. It can be applied on a variety of substrates.

Advantages

- Multi component
- Solvent-free
- Waterproof
- Chemical resistance
- High bond strength
- For both vertical and horizontal applications
- Rapid load-bearing strength

Uses

In tiling situations where high adhesion and chemical strength are required. It is typically suitable for use with glass mosaic tiles in steel, fiberglass and concrete swimming pools.

Suitable substrates

- Concrete
- Steel
- Aluminium
- Stainless steel
- Fiberglass
- Wood
- Porcelain
- Ceramic tiles
- Marble
- Natural stones
- Clinker
- Wood chipboards
- Glass mosaic

Physical Properties*

Property	Typical Results
Compressive strength	>75 MPa @ 28 days
Flexural Strength	>30 MPa @ 28 days
Tensile Strength	>15 MPa @ 28 days
Density	1.6 kg/dm ³
Bond strength	Concrete >3 MPa (concrete failure) Steel >8 MPa Fiberglass >1 MPa (fiberglass failure)
*The above properties are average laboratory values	

Packing

Tek-Tile EP is available in 2.5 & 5 kg pack.

Available Colors

Grey and White

Theoretical Coverage

Notch trowel size in mm	Amount in kg/m ²
3 mm	1.9
4 mm	2.2
6 mm	2.8
8 mm	3.4

Application properties

Mixing ratio	2½ parts by weight component A to 1 part by weight component B
Application time	Approx. 90 minutes
Open time	Approx. 90 minutes
Slip	≤ 0.3 mm
Load-bearing, ready for grouting	After 24 hours
Chemical resistance	After 7 days full cure
Temperature resistance after full cure	-30°C to +100°C (dry heat) -30°C to +70°C (damp heat)

Shelf Life

12 months when stored in factory packed unopened kit, stored in a cool dry and elevated place away from direct sunlight. Use product in opened containers as soon as possible.

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

Surface preparation is important. All surfaces should be dry, clean, and free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding. Steel surfaces should be grit blasted to SA2½.

Mixing

Tek-Tile EP is supplied as a two component epoxy resinous product. Pour one part by weight of hardener (component B) to 2½ parts by weight of epoxy resin base (component A) into suitable clean container and mix with low speed drill (400-800 rpm) with mixing paddle. Mix approximately for 3-5 minutes to achieve lump-free right smooth consistency and uniform color.

Application

Tek-Tile EP is applied in one coat at a thickness of 2 to 5mm. To achieve a uniform thickness, the mortar should be spread with a notch trowel. Do not spread more than 0.5 m² at a time. Spreading larger areas may result in the mortar drying out before tiles can be stuck to the adhesive, resulting in adhesion failure. The actual open time will vary according to the ambient conditions. Leave a minimum 1-2mm gap around every tile.

Joints

Ensure that movement and perimeter joints are incorporated as per the standard practice.

Precautions

Do not re-temper the mix.

Ensure the temperature of the mortar does not exceed 35°C at the time of mixing.

Do not mix by hand.

Do not part mix, use full pack.

Do not expose to running water until the product is fully cured.

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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