

## TECHFIN GP EPOXY

High Strength, Non-flow, Epoxy Bedding and Repair Mortar

Techfin GP Epoxy is a non-slump epoxy paste bedding, repair and adhesive. It is a two component, fast curing compound, ideal for a variety of bedding, gap filling and concrete repair applications. Techfin GP Epoxy is a stiff but workable compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, grease, petroleum, salts, many acids and alkalis. It does not shrink on curing, and is designed to be used when cured from below freezing point to 70 °C. It is impact resistant and exhibits mechanical strength greater than that of concrete. For surface repairs of fine cracks and spalls, repairs to rises without the use of form work.

### TECHNICAL DETAILS

Colour	Grey (mixed)
Mix ratio	1:1
Application	Trowel / Spatula
Consistency	Stiff paste
Pot life	60 minutes
Coverage	1kg / m <sup>2</sup> @ 1 mm
Set time	8 hrs at 25 °C
Cure	Practical 8 hours Full cure 5 days
Application temperature	10 - 35 °C
Service temperature	70 °C dry; 50 °C wet
Shelf life	24 months

### PACKAGING

Techfin GP Epoxy is supplied as prepacked 5 kg kits. Also available as Techfin GP Epoxy (Fine) for thinner, smoother applications and feather edging.

### BENEFITS:



*High strength.  
Impact resistance.*



*Non-slump.  
Excellent adhesion.*



*Moisture resistant and  
waterproof.*



*Chemical resistant.*



*Non-shrink.*



*No priming required and easy to  
use.  
Versatile.*

### APPLICATIONS

- As a repair for damaged and spalled concrete, plaster lime, gypsum finishes, chipboard, timber, plywood, asbestos cement, terrazzo, iron and light steel.
- Ideal for repairing nosing on stairs and broken edges on columns.
- Gap filling adhesive and repairs to honeycombing concrete in horizontal, vertical and overhead applications.
- Fixing of tiles including natural stones in swimming pools, spas, breweries, dairies, abattoirs etc.
- Fixing of surface ports for crack injection, bolts in walls and anchoring.
- Ideal for horizontal grouting and vertical doweling.

## WATCH POINTS

- Cure time is retarded at low temperatures.
- Wear protective clothing and gloves.
- In case of eye contact, wash well with clean water and obtain medical assistance.
- Clean all equipment immediately after use with warm soapy water or lacquer thinners.

## DIRECTIONS

Mix the two components as supplied with the aid of a mechanical mortar mixer fitted with a suitable paddle until a uniform grey colour without streaks is obtained. Surfaces should be dry, clean and free from dust, grease and any residual build-up. Ensure smooth surfaces are roughened, especially metal surfaces. Paint and lime-wash must be removed.

## CONCRETE REPAIR

Concrete substrates to be minimum 25 MPa. Substrates may be damp but not wet as the product is tolerant to moisture. Square cut concrete and ensure a minimum depth of 5 mm for product to be applied. Ensure repair area is free from all dust and loose friable material. Degrease the substrate if necessary using **Liquid Action** and vacuum dry. Mix and apply the product using a trowel. Smooth the surface using soapy water to clean the trowel. Allow to cure for 8 hours before open to full traffic.

## DOWELING

Ensure the drilled hole is 2 mm in diameter wider than the rod and free from dust and water (can be damp but not wet). Press Techfin GP Epoxy into holes and then fit the rod into the hole, expressing the excess Techfin GP Epoxy out around the rod. Wipe away the excess Techfin GP Epoxy and, if necessary, secure the rod until the Techfin GP Epoxy has set (8 hours).

## TILE FIXING

Using a 5 mm x 5 mm notched trowel or a 3 mm x 3 mm notched trowel for small mosaics, apply a full coverage of the substrate and then press tiles into the epoxy mortar bed. Push into position and adjust. Apply all the mixed Techfin GP Epoxy

immediately after mixing in one operation. Should the substrate not already be pre-treated for special conditions e.g. in spas and swimming pools, a base layer of 1 mm thickness must be applied to the entire surface, smoothed off and dry (approx. 12 hours) prior to the tile fixing operation. Tiles will not bond sufficiently to surfaces that are not level or flat.

## TILE GROUTING

Use a plastic or steel spatula for grouting. Remove excess Techfin GP Epoxy from the tiles by using a sponge pad and soapy water while grouting. Grout from the base upwards to prevent air entrapment.

## PRECAUTIONS

Porous tiles may need to be pre-sealed to prevent absorption of the Techfin GP Epoxy into the tiles and resulting in staining upon curing. Spilt or unwanted Techfin GP Epoxy should be cleaned up immediately as it is difficult to remove once hardened.

## WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.