

# TechFin<sup>®</sup> 2K

Two Component Elastomeric Cementitious Waterproofing Coating System

## Description:

**TechFin<sup>®</sup> 2K** is a two component elastomeric acrylic emulsion modified cementitious coating system incorporating a blend of cementitious powders combined with proprietary activating chemicals and high grade quality aggregate fillers with selected bonding agents.

**TechFin<sup>®</sup> 2K** provides positive and negative water repellency against dampness and ground water as well as hydrostatic pressure. It can simply be applied by stiff brush, roller or trowel to obtain the desired thickness. The slurry coating forms a moisture barrier, significantly reducing the water absorption into dry surfaces, allowing moisture to migrate out of protected areas and avoiding moisture build up and dampness.

## Application:

- Concrete structures like sunken portion, toilets, balcony, basement, chajjahs, terrace & small podium slab
- Pools and fountains
- Reservoirs and channels

## Features & Benefits:

- Allows water vapour to escape from the structure.
- Suitable for water retaining structures.
- High resistance to the effect of long-term weathering, durable in all climate conditions.
- Nontoxic - Ideal for potable water tanks.
- Flexible, with thermal expansion similar to concrete.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Blocks passage of water - seals pores.

## Technical Properties:

Technical Properties	
Appearance	Grey powder with white liquid
Mix ratio (Powder to liquid)	3:1 by weight
Pot life @ 25°C @ 40°C	2 hours 30 minutes
Setting Time	40-45 minutes
Inter coat application time, Hrs	8-12 hours
Application Temp.	Not less than 10°C
Water penetration Din 1048	1.5 Bar no leakage
Static crack accommodation	1mm
Tensile strength	>20 kg/cm <sup>2</sup>
Elongation	>42% (air) >31% (under water)
Density	1850kg/m <sup>3</sup>
Toxicity	Non-toxic
Adhesion to concrete	Excellent
All values are subject to 5-10 % tolerance	

## Application Instructions:

### Surface Preparation:

Ensure the substrate is structurally sound, free of surface laitance, oils, grease, dirt, moss, lichen, and loose material. The surface should be smooth and free from sharp projections and loose debris, and any material which would hinder adhesion. Brush down and clean off, leaving a sound substrate providing adequate bond for the applied slurry. Preparation is usually carried out using mechanical tools such as scrabbles for floors and bush hammers for vertical surfaces. Static cracks greater in width than 1mm must be chased out, dampened down and repaired with a dry pack consistency of TechnoCem<sup>™</sup> RM. Prior to priming use TechnoCem<sup>™</sup> RM to achieve a smooth and level surface by filling holes and irregularities.

### Mixing:

**TechFin<sup>®</sup> 2K** is supplied in premeasured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix, using a slow speed (300rpm) drill fitted with a suitable paddle. MIX and USE; do not mix more material than can be used in one hour. Do not apply to dry concrete. Saturate concrete surfaces with clean water and apply whilst still damp (saturated surface dry), using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. For heavy 6-10mm depressions, honeycombs etc. use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried. It is recommended, for general resurfacing, that each coat should be a minimum of 1.0 mm thick.

## Priming:

Apply a coat of **TechnoCrete® URP K10-P** duly mixed with cement in 1: 1 ratio (1part of polymer: 1 Part Cement) as a primer before laying **TechFin® 2K**.

## Curing:

- Moist curing should be done for a period of 3 days by spraying / sprinkling of potable water after about 6 hours from the time of application of the final coat.
- After moist curing the coating shall be allowed to dry before submersion in water.
- Do not allow the rapid drying of the coating by covering the coating with help of polythene sheet in case of high humidity and windy condition.

## Coverage:

This depends on the required consistency & surface. The approximate coverage is (2-2.5) kg/m<sup>2</sup> in 2 coats.

## Storage & Shelf Life:

TechFin® 2K has a shelf life of 24 months if unopened containers stored in cool dry place.

## Packaging:

- 20 Kg Pack: A two component kit consisting of 15Kgs Powder and 5Kg liquid.
- 40 Kg Pack: A two component kit consisting of 30Kg Powder and 10Kg liquid

**Disclaimer:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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## Precautions/Limitations:

**TechFin® 2K** shall be applied to the substrate temp above 10°C to below 40°C  
Ensure to provide a protective plaster over the final coat to avoid mechanical damage.

## Health & Safety Instructions:

- TechFin®2K is non-toxic. Gloves and goggles should be worn.
- Any splashes to the skin or eyes should be washed off with clean water.
- In the event of prolonged irritation, medical advice should be sought.
- Should use a dust mask while handing the powder.

**Additional Information:** Techno Builders Solutions® By Sterling Technotrade India Pvt. Ltd offers high performance concrete admixtures, adhesives, protective coatings, concrete repairs, industrial flooring, grouts, anchors, joint sealants, surface treatments, curing compounds, repair mortars, release agents, grinding aids, and waterproofing as part of its product range.

\*Separate datasheet are available on these products.

**STERLING TECHNOTRADE INDIA PRIVATE LIMITED**  
**The Specialist Construction Chemical Company®**

**Head Office:** 109-111-112, 1st Floor, Vijaya Building, No. 17, Barakhamba Road, Connaught Place, New Delhi- 110001

**Manufacturing Unit:** Plot No-J-3, UPSIDC Site C, Surajpur Industrial Area, Greater Noida, Uttar Pradesh 201306

**WEB:** sterlingtechnotrade.com | **EMAIL:** support@sterlingtechnotrade.com | **TEL:** 011 45084212