

## TechnoFlex® ProTech Plus

Solvent free single component Polyurethane Liquid Applied Waterproofing Membrane.

### Description:

TechnoFlex® ProTech Plus is a single component liquid waterproofing membrane made up from pure polyurethane, which once catalyzed forms a continuous elastic membrane, without any joints, overlapping or any integrated mesh needs. Its unique properties make it an excellent choice for achieving air-tightness and perfect waterproofing on a multitude of surfaces and substrates.

TechnoFlex® ProTech Plus is specially formulated for easy roller application of all permanently flexible, tough, high build, long-life waterproof barriers. TechnoFlex® ProTech Plus system maintain their watertight integrity and prevent the passage of liquid under dynamic, static, continuous, or intermittent hydrostatic pressure.

### Typical applications include

TechnoFlex® ProTech Plus is designed to waterproof most applications within the building and construction industry including-

- Shower recess and wet areas (floor & upturns)
- Decks, balconies, terraces and podiums
- Retaining walls
- Planters and landscaped areas
- Structural slabs
- Water retaining structures, fountains & swimming pools
- Roofs
- Decks
- Terraces, balconies

### Features and Benefits

- Fully bonded system-water cannot track beneath the membrane
- Creates a seamless, tough & flexible elastomeric membrane when fully cured.
- Excellent chemical resistance
- Resistant to standing water
- Excellent adhesion to various substrates with suitable primer
- Excellent resistance to water and carbon dioxide permeability
- High water vapour permeability
- Free of pitch or bitumen modification
- Ready to use – no measuring and mixing required
- Excellent workability
- Reaches sufficient cure generally in 24 hours allowing for toppings or coverings to be placed
- Easy to repair

### Method of Application

#### 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 Sterling Technotrade's "TechFin® CR 10-2C". Prior to priming use Sterling Technotrade's "TechFin® CR 10-2C" to achieve a smooth and level surface by filling holes and irregularities.

#### Priming

Apply a coat of TechnoSeal® PrimePlus or TechnoFloor® SolidCoat EP for sealing pin holes and better bonding of TechnoFlex® ProTech Plus.

#### Coating Application

TechnoFlex® ProTech Plus is a cold applied and ready to use material, it does not need to dilution. It can be applied with brush, roller, airless pump or trowel. Depending on weather conditions, it dries in approximately 5-6 hours.

#### Technical Properties

Appearance	Liquid, Grey and white in colour
Elongation @ Break	> 400 % (ASTM D 412)
Tack Free Time @ 25° C	12 hours
Final Curing time at 25°C	2 days at 1.5mm thickness
Specific Gravity	1.50 + 0.02 g/ml
Solid Content %	95%
Shore A Hardness	70 ± 5
Crack bridging (ASTM C836)	No cracking, splitting pinholes or any other type of failure was observe at 1.5 mm
Tensile Strength	> 4 Mpa
Adhesion to concrete	Excellent

**All values are subject to 5-10 % tolerance**

#### Coverage

Approx. 1.65 kg/m<sup>2</sup> for 1.5mm thickness layer.

#### Packing

20 Kg Pack

#### Storage

TechnoFlex® ProTech Plus has a shelf life of 12months if unopened containers stored in cool dry place.

## Health and Safety instructions

Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person. Wash hands thoroughly after handling. Wear protective clothing, gloves & eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations. Keep container closed when not in use. Keep out of the reach of children. Please contact with Sterling Technotrade's technical service department for further information and support.

Product only for professional use.

## Additional information

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes 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 & Waterproofing.

\*Separate datasheet are available on these products.

## Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed with industrial type solvents or mechanically.

## Cautions / Limitations

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +40°C.

**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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