

## Description:

TechnoFlex®PLM 5000 is Highly Elastomeric Pitch Free Polyurethane based Fluid applied single component waterproofing Membrane. It cures by reaction with atmospheric moisture to form a tough, elastomeric, waterproof membrane. TechnoFlex®PLM 5000 is designed for use on horizontal and vertical surfaces, covered by a protective screed or render.

TechnoFlex®PLM 5000 is specially formulated for easy roller application of all permanently flexible, tough, high build, long-life waterproof barriers. TechnoFlex®PLM 5000 system maintain their watertight integrity and prevent the passage of liquid under dynamic, static, continuous, or intermittent hydrostatic pressure.

## Usage:

- 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 & 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 scrabblers 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™ RM. Prior to priming use TechnoCem™ RM to achieve a smooth and level surface by filling holes and irregularities.

### Priming

Apply a coat of TechnoSeal® PrimePlus for sealing pin holes and better bonding of TechnoFlex®PLM 5000

### Coating Application

TechnoFlex®PLM 5000 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 in colour
Elongation @ Break	> 550 % (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 + 0.05 g/ml
Solid Content %	90% ± 3%
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	> 2 Mpa
Adhesion to concrete	Excellent
<b>All values are subject to 5-10 % tolerance</b>	

## Coverage:

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

## Packing:

20 /22 Kg Pack

## Storage:

TechnoFlex® PLM 5000 has a shelf life of 12months if unopened containers stored in cool dry place.

## 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.

## 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.

**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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