

## Description:

TechnoFlex® RoofShield DT is a flexible elastomeric liquid applied membrane specifically designed to waterproof a variety of external surfaces. Enhanced UV resistant properties create a product that can be used as a weatherproof membrane with flexibility and durability. TechnoFlex® RoofShield DT offers long-term protection against varying climate conditions for external substrates. Suitable for use over horizontal and vertical surfaces, TechnoFlex® RoofShield DT resists fungi and algae growth and prevents salt and carbon attack to the substrate.

TechnoFlex® RoofShield DT is resistant to stagnation and specific for waterproofing even very large surfaces. It protects old and new surfaces by creating a high strength elastic membrane, with high resistance to moisture, frost and UV radiation. It has good adhesion to all common substrates while retaining its elasticity for a long time. When applied, it forms a membrane without joints that seals the surface but at the same time allows it to "breathe".

## Typical applications include

TechnoFlex® RoofShield DT can be used for following application-

- Building Roofs / Terraces – Flat & Slope.
- Galvanized metal sheets
- Over existing cementitious waterproofing treatments like sound brick-bat coba, concrete screeds, acrylic coatings, etc.

## Features and Benefits

- Waterproofing- Provides excellent water resistant barrier on roof /terrace
- Tough and abrasion resistant- Suitable for light foot traffic
- Highly durable and light weight- UV resistant and needs no extra protective screed
- Flexible and elastic- Accommodates movements in waterproofing system and covers and bridges hairline cracks
- Easy to apply- One component, Ready for use, No need to remove the existing system. Can be brush or roller applied on vertical surfaces without sagging.
- Weather resistant- Excellent resistance in weathering, high durability to moisture, frost & UV radiation  
Breathable- Provides water- vapor permeability, allowing the surface to "breathe"

## 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 TechFin®, TechnoCem™ range of repair mortars. Prior to priming use TechFin®, TechnoCem™ range of repair mortars to achieve a smooth and level surface by filling holes and irregularities.

### Priming

Apply a coat of TechnoSeal® FlexiPrime for sealing pin holes and better bonding of TechnoFlex® RoofShield DT.

### Coating Application

TechnoFlex® RoofShield DT 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. It should not be applied in rainy weather, when the temperature below -5°C.

Apply the first coat of TechnoFlex® RoofShield DT at the rate of 2.25 sq.mtrs per Kg/litre and allow it to dry before taking up the second coat, the rate of application being the same. This would ensure correct consumption of material that will deliver a total DFT of 500- 600 micron. Minimum drying time between coats will be 4 to 6 hours. Allow the system to air cure for 7 days minimum

### Cautions / Limitations

- All corners, gaps, joints, protrusions & outlets shall be coated with extra coat.
- Do not apply during rains.
- Substrate MUST be in SSD condition for application of primer.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipments.
- To achieve the full proof waterproofing, all parapet walls should be covered with TechnoFlex® RoofShield DT.
- All wall to floor joints must be provided with proper angle fillets prepared with polymer modified mortar using TechnoCrete® URP K-10 M.
- If the surface has excess moisture then there is possibility of blister formation in case of all liquid applied membrane coatings.

### Theoretical Coverage

- 2.25 sq.mtrs. Per kg/litre per coat.
- Minimum two coats are recommended.

## 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.

**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.

**EDITION:** 09/2017/001

**IDENTIFICATION NO:** PD-036/06/DT

Please note that this datasheet supersedes all previous versions.

## Technical Properties

Appearance	Dark Tinted colour Liquid
Elongation @ Break %	> 100 (ASTM D 412:2002)
Adhesion Strength N/mm <sup>2</sup>	1.0 (ASTM D 4541 : 2002)
Application Temperature	+ 5°C to 40°C
Service Temp.	10°C to 50°C
Crack Bridging	No cracks up to 1 mm (ASTM C 836: 1995)
Solid Content %	55 ± 2 (ASTM D 1475-03)
Viscosity	1500CP+/- 100
Water Ponding Test	No water penetration through the coating layer
Water Absorption (%)	> 20 (ASTM D471)
Adhesion to concrete	Excellent

All values are subject to 5-10 % tolerance

## Packing

TechnoFlex® RoofShield DT is available in plastic buckets of 5, 20 & 30 kg.

## Storage & Shelf Life

TechnoFlex® RoofShield DT has a shelf life of 18 months 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.

## 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.

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