



STERLING TechnoFlex® Water GuardPro

TECHNOTRADE Elastomeric Acrylic Liquid Waterproofing Membrane

The Specialist Construction Chemical Company

Description:

TechnoFlex® Water GuardPro is a flexible elastomeric liquid applied membrane specifically designed to waterproof both internal & external surfaces. Due to its enhanced UV resistance properties, it can be used as a weatherproof membrane that is flexible and durable. TechnoFlex® Water GuardPro offers long-term protection against varying climate conditions. Suitable for use over horizontal and vertical surfaces, TechnoFlex® Water GuardPro resists fungi and algae growth and prevents salt and carbon attack to the substrate.

TechnoFlex® Water GuardPro features a high level of resistance to stagnation and is suitable for waterproofing even very large surfaces. By creating a high-strength elastic membrane that is resistant to moisture, frost, and ultraviolet light, it protects old and new surfaces. The material adheres well to all common substrates while maintaining its elasticity for a long time. As it is applied, it forms a membrane without joints that seals the surface while at the same time allowing the surface to breathe.

Application:

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

Features & 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 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 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 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® Water GuardPro.

Coating Application:

TechnoFlex® Water GuardPro 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 two coats of TechnoFlex® Water GuardPro @1.65 kg/sqm. Second coat will be applied when first coat is dry or touch dry. Minimum drying time between coats will be 4 to 6 hours. Allow the system to air cure for 7 days minimum. The DFT will be 800-1000 microns may vary depending upon surface condition.

Technical Properties

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| Appearance | Milky White Liquid |
| Elongation @ Break % | > 200 (ASTM D 412:2002) |
| Adhesion Strength N/mm ² | 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 | |

Theoretical Coverage:

- (1.5 - 1.65) kg/ sq.mtrs. This coverage will go up using any type of mesh sandwiched between 2 coats.
- Minimum two coats are recommended.

Packing:

TechnoFlex® Water GuardPro is available in plastic buckets of 5, 20 & 30 kg.

Storage & Shelf Life:

TechnoFlex® Water GuardPro 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.

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® Water GuardPro.
- 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.

Health & 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 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.

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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