

TechnoFlex® DeckSeal-2K

Two component, highly elastic Polyurethane Liquid Applied Waterproofing Membrane.

Description:

TechnoFlex®DeckSeal-2K is a two component, solvent free, liquid applied Polyurethane based waterproofing membranes. It cures upon reaction of its two components and the resulting membrane is high performance seamless elastomeric waterproofing.

TechnoFlex®DeckSeal-2K is specially formulated for easy roller application of all permanently flexible, tough, high build, long-life waterproof barriers. TechnoFlex®DeckSeal-2K system maintain their watertight integrity and prevent the passage of liquid under dynamic, static, continuous, or intermittent hydrostatic pressure.

Typical applications include

TechnoFlex®DeckSeal-2K 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
- Water retaining structures, fountains & swimming pools
- Roofs Decks , Terraces, balconies
- Roofs, terraces and terrace gardens.
- Tunnels.
- Collecting tanks.
- Underground water tanks.
- Car park decks.

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
- Ideal for applications in both new and old substrates.
- Excellent adhesion to various substrates with suitable primer
- Excellent resistance to water and carbon dioxide permeability
- High water vapour permeability
- Excellent workability

Coverage

Approx. 1.65 kg/m² for 1.5mm thickness layer.

Packing

20 Kg Pack, 200 kg container.

Storage

TechnoFlex®DeckSeal-2K has a shelf life of 12months if unopened containers stored in cool dry place.

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 scabbles 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®DeckSeal-2K.

Mixing

TechnoFlex®DeckSeal-2K is supplied in two pre- weighed packs (Base (A), Hardener (B)), ready for onsite mixing. Mixing should be carried out using a heavy duty, slow speed drill fitted with mixing paddle. The contents of base (part A) should be thoroughly stirred to disperse any possible settlement. The entire contents of the hardener can should be stirred and added to the base container. Mix thoroughly for 2-3 minutes taking extra care to avoid air entrapment. Mix until a homogeneous mixture is attained. Improper mixing may result in product failure. Once mixed, the material must be used within its pot life

Application

TechnoFlex®DeckSeal-2K can be applied by brush, roller or airless spray. Subsequent layers could be done only after the first layer has been cured tack free (min 16 hours). In below ground structures, wet areas and roofs, the application thickness should not be less than 1.2mm. All liquid application should be in at least two coats. It should be ensured that the material is not applied at excessive film thickness in single layer. Excessive film thickness may create bubbles. A layer of fiberglass mesh should be embedded between the two TechnoFlex®DeckSeal-2K coats over pipe culverts, floor drains, corner joints and floor / wall junctions.

The final wet coat of TechnoFlex®DeckSeal-2K shall be spread with sufficient clean silica and before applying tile adhesives. Tiling or finished floor installations should be carried out as soon as possible after full cure of membrane is established.

Technical Properties	
Color	Black, Grey, White and Customized
Elongation @ Break	> 300 % (ASTM D 412)
Tack Free Time @ 25° C	12 hours
Final Curing time at 25°C	2 days at 1.5mm thickness
Specific Gravity	1.45 + 0.02 g/ml
Volume solids %:	90% ± 3%
Shore A Hardness	60 ± 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

Cleanup Information

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

Cautions / Limitations

- TechnoFlex®DeckSeal-2K should not be applied on surfaces with a risk of rising dampness.
- Do not apply the product with imminent rain forecast.
- Don't mix more material than can be used within the pot life of mixture.
- Incorrect assessment treatment of cracks may lead to a reduced service life and reflective cracking
- TechnoFlex®DeckSeal-2K is not designed to be exposed in external applications unless it is covered with UV resistance coating.
- Apply only when substrate and ambient temperature exceeds +5°C. During application, the surface temperature must be +3°C above dew point.

Health and Safety instructions

The product contains isocyanate, as well as volatile and inflammable solvents. Do not smoke during the application process and work in a well-ventilated environment away from bare flame. Do not forget that solvents are heavier than air and therefore they accumulate on the floor. Proper work clothes, protective gloves, goggles and mask pursuant to the occupational health rules should be used during the application process. Components should not contact the skin and eyes due to the irritating effects of the non-cured product.

Wash with plenty of water and soap in case of contact. Immediately consult a doctor in case of swallowing.

For detailed information, please see the Safety Information Form (MSDS) or get in contact with our technical departments. Keep out of 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: 10/2017/001

IDENTIFICATION NO: PD-063

Please note that this datasheet supersedes all previous versions.

Adhesion to concrete	Excellent
Application Surface Temperature	+5°C to +35°C, relative humidity should be below 75%.
Service Temperature	- 40° C to 150° C
Pot life	30 minutes @25°C
Recoat interval, min.	24 hour(s) @25°C
All values are subject to 5-10 % tolerance	

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.

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:** 01145084212