

TechnoFlex® Super TopSeal 500

Highly Elastomeric Fluid Applied Waterproofing And damp proofing Membrane

Description:

TechnoFlex®Super TopSeal 500 is a single component ready to use cold applied chemically modified styrene based liquid membrane which provide a seamless, elastomeric heavy duty membrane for use in waterproofing and damp proofing concrete or masonry surfaces above and below grade. The appearance of TechnoFlex®Super TopSeal 500 is in dark brownish and turns into a black membrane on drying. TechnoFlex®Super TopSeal 500 system maintain their watertight integrity and prevent the passage of liquid under dynamic, static, continuous, or intermittent hydrostatic pressure.

Typical applications include

TechnoFlex®Super TopSeal 500 can be used for following application-

- TechnoFlex®Super TopSeal 500 is designed for use as a waterproofing or damp proofing membrane for use on basement, podium and terraces.
- Use as a waterproofing or damp proofing membrane for use on concrete or masonry structures, both above and below grade.
- It can also be used under tiles in wet rooms, such as bath rooms.
- The dry membrane is for interior use and should not be exposed to permanent daylight.

Features and Benefits

- Fully bonded system-water cannot track beneath the membrane
- Highly Elastomeric- accommodates minor structural movements and will bridge concrete shrinkage cracks and capable of withstanding severe cases of expansion, contraction and deck movements.
- Seamless-continuous waterproofing integrity with easy detailing
- Cold applied-eliminates fire hazards during application
- Protects against rain, air and vapor intrusion or leakage
- Excellent adhesion to most construction surfaces such as: concrete, brick, stone, wood or metal
- Retains flexibility in wide temperature range

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 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®Super TopSeal 500

Coating Application

TechnoFlex®Super TopSeal 500 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. It should not be applied in rainy weather, when the temperature below +5°C. Next layer should be applied on dry layer.

Coverage

Approx. 1.2 kg/m² for two layer.

Technical Properties

Appearance	Viscous Liquid dark brown, dry form is black
Elongation @ Break	> 1000 % (ASTM D 412-98)
Tack Free Time @ 35° C	10-12 hrs
Drying Time @ 25° C	10-20 min.(ASTM D 1640-03)
Specific Gravity	0.95 ± 0.10 (ASTM D 1644-03)
Solid Content %	55 ± 2 (ASTM D 1475-03)
Tear Resistance, KN/m	28 ± 10
Water vapor Transmission (g / h - m ²)	0.46 (ASTM E 96-95)
Viscosity (Spindle No: 7; RPM : 10 @ 25° C	50000 – 70000 CPS
Tensile Set recovery, %	95
Chemical Resistance, % Weight Change	3.0
- 10 % Salt (Sodium chloride)	2.0
- 5 % Alkali (Caustic Soda)	3.0
- 5 % Acid (Sulphuric)	
Adhesion to concrete	Excellent
Flammability & Toxicity	0.95 ± 0.1
Tensile Strength	0.51 N / mm ² (ASTM D 412-98)
Standards	Conforms to ASTM D - 2823, D - 412, D - 471

All values are subject to 5-10 % tolerance

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: 02/2018/001

IDENTIFICATION NO: PD-185

Please note that this datasheet supersedes all previous versions.

Packing

30 Kg Pack

Storage

TechnoFlex® Super TopSeal 500 has a shelf life of 12 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

- 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.

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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