

Description:

TechnoProof® ELM 800 is high performance elastomeric cold applied single component liquid rubber waterproofing membrane, specially designed for waterproofing a range of vertical and horizontal surfaces. TechnoProof® ELM 800 formulated from a blend of special resin and styrene-butadiene copolymer rubber, reinforced with special water repelling fillers, minerals stabilizers and gelling agent. TechnoProof® ELM 800 can be applied over several types of substrates as waterproofing and protective coating for concrete and masonry.

TechnoProof® ELM 800 demonstrates durable and elastomeric characteristics, providing a seamless waterproof coating on building substrates and surfaces before other suitable finishes or toppings are applied. Once cured, TechnoProof® ELM 800 withstands ponding water and can be applied in continuously immersed areas forming a seamless waterproof membrane.

Application Area:

- Roof decks, bridges, decks and Podium slabs
- Concrete roofs, Polyurethane foam slabs, polyester built up roofs, maintenance of existing roofs
- Masonry and concrete walls, bathrooms, basements, metal surfaces etc.
- Used as a sandwich membrane in new construction and as surface treatment on existing slabs

Features:

- Single component & cold applied- Easy to apply hence no need for mixing or heating.
- Highly Elastomeric- Bridge minor cracks which may occur in concrete substrate.
- High tensile strength, elongation, excellent adhesion to wide range of substrates.
- Highly elastic product and cures to rubber like membrane.
- Capable of withstanding severe causes of expansion, contraction and deck movements.
- Excellent UV Resistance, oxidation and ozone.
- Resistance to peeling, chipping and/or separation and longer life.
- Can be applied in continuously immersed areas
- Resistant to fungi and algae growth
- Tough and durable
- Environmentally friendly water based product. No solvents and no VOC's.

Method of Application:

Surface Preparation

Surface preparation is very important to get the highest performance of TechnoProof® ELM 800. Any surface to be coated must be clean, sound and free of oil or grease. Any oil or grease contamination should be removed with a chemical degreaser. All holes should be filled with a suitable cementitious mortar before application of TechnoProof® ELM 800. Best results are obtained on dry, very absorbent substrates; therefore, allow sufficient time for the substrate to dry out after surface cleaning & preparation. New brick structures shall be cleaned with suitable cement remover /Cleaner to remove cement laitance, then rinse thoroughly with clean water.

Priming

For priming, primer coat of TechnoProof® ELM 800 is applied on prepared surface. For primer coat use TechnoProof® ELM 800 diluted with water in ratio of 1:1

Application Procedure

- Stir the contents of drum thoroughly to remove all sediments. The coating is applied straight by using standard roofing brooms, brushes, squeegees or airless spray equipment, please check the viscosity to insure smooth spray of the product. Apply two coats of TechnoProof® ELM 800 at rate of (1.3-1.65) kg/sqm in 2 coats. Allow full curing of first coat (8-10 hours) before applying second coat.
- For better results use TechnoFix® GFM - Glass Fibre Reinforcement embedded into 1st Coat while it is still wet.
- At joints and detailing apply a layer of TechnoFix® GFM -mesh reinforcement while the first coat is wet.

Typical Properties at 25°C:

Appearance & Color	Black Smooth thick paste
Specific Gravity (ASTM D 1644-03)	0.95 ± 0.10
Solid Content % (ASTM D 1475-03)	55 ± 2
Elongation @ Break (ASTM D 412-98)	> 800 %
Viscosity (Spindle No: 7; RPM : 10 @ 25° C)	50000 – 70000 CPS
Water vapor Transmission (g/h-m ²) (ASTM E 96-95)	0.46
Tensile Set recovery, %	95
Tear Resistance, KN/m	28 ± 10
Over coating time	8-10 hrs @25° C
Service Temperature, 24 hrs @120°C	No shrinkage, brittleness
Chemical Resistance, % Weight Change	3.0
- 10 % Salt (Sodium chloride)	2.0
- 5 % Alkali (Caustic Soda)	3.0
- 5 % Acid (Sulphuric)	
Tack Free Time @35° C	10- 12 hrs
Hardness Shore A (ASTM-D 2240-05)	20-25
Standards	Conforms to ASTM D-2823, D-412, D-471, E-96/BW, C-836

Coverage:

Theoretical coverage of TechnoProof® ELM 800 is 1.3-1.65kg/sqm in 2 coats. Actual coverage will depend upon the porosity of the substrate.

Packaging:

TechnoProof® ELM 800 is supplied in 20 and 210 Kg workable drums.

Shelf Life & Storage:

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is at least 12 months when stored as above in unopened containers. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Points to remember or watch:

- Surfaces must be dry.
- High winds will interfere with application.
- Protective barriers may be required.
- Ensure adequate ventilation.
- Trial applications should be carried out to ensure compatibility with substrate.

Health and Safety instructions:

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

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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