

TechnoBit® AcryFlex LM

Elastomeric Cold-Applied single component Waterproofing Liquid Membrane.

Description:

TechnoBit® AcryFlex LM is High performance elastomeric cold applied single component liquid waterproofing membrane, specially designed for waterproofing a range of vertical and horizontal surfaces.

TechnoBit® AcryFlex LM formulated from a scientific blend of pitch free bitumen, special resin and styrene-butadiene co-polymer rubber, reinforced with special water repelling fillers, minerals stabilizers and gelling agent. **TechnoBit® AcryFlex LM** can be applied over several types of substrates as waterproofing and protective coating for concrete and masonry.

TechnoBit® AcryFlex LM 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, **TechnoBit® AcryFlex LM** withstands ponding water and can be applied in continuously immersed areas forming a seamless waterproof membrane.

Application Includes:

TechnoBit® AcryFlex LM is Ideal waterproofing for:

- 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 & Benefits:

Some of the important features of **TechnoBit® AcryFlex LM** include:

- 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.

Applications Instructions:

Surface Preparation:

Surface preparation is very important to get the highest performance of **TechnoBit® AcryFlex LM**. 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 **TechnoBit® AcryFlex LM**. 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 TechnoBit® AcryFlex LM is applied on prepared surface. For primer coat use TechnoBit® AcryFlex LM diluted with water in ratio of 1:1

Application:

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 **TechnoBit® AcryFlex LM** at rate of 0.8-1kg/m²/per coat to provide a total wet applied thickness of minimum 1.5 mm. Allow full curing of coating, (8-10 hours) before applying succeeding coats. For better results use **TechnoFix® GFM** -Glass Fibre Reinforcement embedded into 1st Coat while it is still wet. Apply second coat of **TechnoBit® AcryFlex LM** to achieve required thickness at an interval of 8-10 hours at 25° C. At joints and detailing, apply a layer of **TechnoFix® GFM** -mesh reinforcement while the first coat is wet.

Typical Properties at 25°C:

Appearance and 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)	> 1000 %
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	
- 10 % Salt (Sodium chloride)	3.0
- 5 % Alkali (Caustic Soda)	2.0
- 5 % Acid (Sulphuric)	3.0
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

Cleaning:

Equipment: Should be cleaned immediately with water after use. Use of **TechnoBit® AcryFlex LM** may be necessary for dried up material.

Hands: Use a hand cleaner or water followed by soap.

Coverage

Theoretical coverage of **TechnoBit® AcryFlex LM** is approximately 1m²/kg/coat at 800 microns wet thickness. Actual coverage will depend upon the porosity of the substrate.

Packaging:

TechnoBit® AcryFlex LM is supplied in 20 and 210 Kg workable drums.

Storage & Shelf Life:

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.

Precautions:

Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye contact: Flush eyes with water for 15 minutes and call for medical help.

Ingestion: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin contact: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Health & 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 is 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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