

BITUTEX FBR

Fibre reinforced solvented bitumen paint

TDS_Bitutex-FBR_GCC_0116

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BITUTEX FBR is a fibre reinforced solvented bitumen based thixotropic coating used for protection of concrete structures. On curing the coating forms a tough barrier to water and vapor. The system complies with the requirements of BS 8102:1990.

CHARACTERISTICS

- ▶ Cold applied, easy to apply
- ▶ Single Component
- ▶ Asbestos free
- ▶ Seamless / joint free
- ▶ Excellent resistance to attack from aggressive salts present in underground water, chlorides and sulphate ions
- ▶ Excellent adhesion to most substrates, like concrete, metal, wood, cork etc
- ▶ Versatile
- ▶ Conforms to: BS 3416, Type 2, Class C

FIELDS OF APPLICATION

- ▶ Waterproofing of bathrooms, roofs, basements, bridges, kitchen floors and other wet areas
- ▶ Dampproof membrane in sandwich construction
- ▶ Protective coating for substructures

APPLICATION INSTRUCTIONS

Application of BITUTEX FBR should be carried out when the ambient temperature is between 5°C and 55°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the bitumen coating system is as follows:

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. Light mechanical grinding/grit blasting/high pressure water jet may be used to clean the surface of all the contaminants depending on the degree of contamination on the surface to be coated. All surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired with suitable POLYCRETE* concrete repair mortar.

Priming

All surfaces shall be primed with a solvent based primer (POLYPRIME SB)* prior to the application of BITUTEX FBR. Due to its low viscosity, the primer is penetrative in nature and easily penetrates into the concrete pores which promote the adhesion between the membrane and the concrete surface. In addition to that, the primer also acts as a binder for the dust particles which gets accumulated on the concrete surface even after cleaning. Application of the primer will also assist in the application of this heavy bodied coating and will ensure a more readily achieved even coverage. The primer can be applied with a brush, roller or squeegee.

Foundation Application

Mix the contents of the drum thoroughly prior to application so that the fibres are uniformly distributed.

BITUTEX FBR can be applied by a brush or trowel as evenly as possible. The coating shall be applied @2 m²/lt./coat which will give a dry film thickness of 250 microns per coat. For higher thicknesses additional coats shall be applied at the given coverage rate and only after the previous coat has dried completely.

Roofing Application

Use a reinforcing scrim at up stands and around pipe works. The scrim shall be embedded into the coating followed by another coat on top of it.

Protection

BITUTEX FBR coating should be protected from getting damaged due to the ongoing site activities and during backfilling. Coating laid on horizontal surfaces can be protected either by a cement sand screed (50mm thick) or by a fibre impregnated asphaltic protection board (BITUBOARD)*. On vertical surfaces the coating shall be protected with BITUBOARD. BITUBOARD can be fixed on the membrane by a double sided bitumen adhesive tape (WATERTITE TS 15)*

STORAGE & SHELF LIFE

The pails and drums should be stored in a covered area, away from direct sunlight, UV and other sources of heat. The shelf life is up to 12 months if stored as per recommendations. Excessive exposure to sunlight and UV will result in the deterioration of the quality of the product and reduce its shelf life.

HEALTH & SAFETY

As with all bitumen products caution should always be exercised. Protective clothing such as gloves and goggles should be worn (see packaging for specific instruction). Since the product is solvent based, it gives out flammable and noxious vapor, which may have narcotic effects if inhaled or absorbed through skin. Treat any splashes to the skin or eyes with clean water immediately. Should any of the product be accidentally swallowed, do not induce vomiting. Call for medical assistance immediately. Ensure that the container is available for the medical attendant to examine any relevant instructions and contents details.

SUPPLY

BITUTEX FBR	20L pail & 200L drum		
POLYPRIME SB	20L pail & 200L drum		
BITUBOARD	3.2 mm	2m x 1m,	wt 7.7kg [#]
	4.0 mm	2m x 1m,	wt 9.6kg [#]
	6.0 mm	2m x 1m,	wt 14.0kg [#]
WATERTITE TS 15	10m x 50mm, wt 0.60kg [#]		

*Refer to website for TDS

[#] Approximate weight

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Density, [g/cc]	1.05±0.05	ASTM D 1475
Solid content, [%]	75	ASTM D 1644
Tack free time, [hrs]	24	-
Adhesion strength, [N/mm ²]	> 0.5	ASTM D 4541
Full cure [hrs]	72	-
Heat resistance @60°C	No Flow	ASTM D 4479
Application temp, [°C]	5 to 55	-
Service temp, [°C]	-5 to 75	-
Chemical Resistance [pH]	2.5 -11.5	ASTM D 543

All values given are subject to 5-10% variation

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

Manufactured in G.C.C.



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