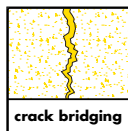


Bitubond HM

Hot poured waterproofing membrane

CHARACTERISTICS

- ▶ Forms a tough and flexible waterproofing membrane
- ▶ Suitable for high ambient temperature application. Will not run or flow at temperatures up to 80° C
- ▶ Has good adhesion to asphalt and concrete substrates
- ▶ Seamless / Joint free



DESCRIPTION

Bitubond HM is a single component, hot-poured rubber asphalt compound, which cures to form a tough & flexible waterproofing membrane.

FIELDS OF APPLICATION

Waterproofing split-slab construction Ideal for roof deck waterproofing using the inverted roof membrane assemblies & green roof systems. Below ground waterproofing of water retaining structures including reservoir, floors & roofs, swimming pool substructures and irrigation canal floors

APPLICATION INSTRUCTIONS

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 a suitable concrete repair mortar.

Priming

Polyprime SB shall be primed on the prepared substrate prior to the application of Bitubond HM. Due to its low viscosity, the primer is penetrative in nature and easily penetrates into the concrete pores which promotes 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 primer will also assist in the application of this heavy bodied coating and



TDS_Bitubond HM_GCC_0518

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will ensure a more readily achieved even coverage. The primer can be applied with a brush, roller or squeegee.

Application

Heat Bitubond HM to 175°C in a suitable oil jacketed heat vessel. Pour the melted compound on the surface and spread or apply it with a trowel / spatula at a rate of 1m² /ltr/coat to achieve a dry film thickness of 1mm. For more demanding situations, it is recommended to apply the coating @ min 2mm DFT. Protect the applied membrane from damage until it has cooled down and forms a tough resilient membrane.

Precaution

Care should be taken when heating Bitubond HM. The maximum safe heating temperature should not exceed 210° C. Use an oil jacketed bitumen heater with temperature control. Small quantities (up to 5 Kg) can be heated by direct heating method.

Protection

Bitubond HM coating should be protected from getting damage 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 Bitubond. Bitubond can be fixed on the membrane by a double sided bitumen adhesive tape (Watertite TS 15).

LIMITATIONS

Bitubond HM is not recommended for:

- Aerated concrete
- Exposed or wearing surface
- Damp, contaminated surface
- Application below 5°C

Consult before using over concrete with curing compounds or existing waterproofing membranes.

STORAGE & SHELF LIFE

BITUBOND HM 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 recommendation.

HEALTH & SAFETY

As with all bitumen products caution should always be exercised.

- Fire – Flash Point 210° C
- Skin & Eyes – Can cause severe burns. If contact occurs, cool affected area with cold water and seek medical assistance immediately
- PPE – Protective clothing such as gloves and goggles should be worn.

SUPPLY

Bitubond HM	16kg Block inside a carton
Polyprime SB	20L Pail

TECHNICAL DATA

PROPERTIES	VALUES	TEST METHODS
Solid Content, [%]	100	ASTM D 2939
Specific gravity	1.03±0.05	ASTM D 70
Resiliency, [%]	> 60	ASTM D 5329
Elongation, [%]	> 1200	ASTM D 412
Bond	Pass	ASTM D 5329
Resistance to mild acids and alkalis	Excellent	ASTM D 896
Crack bridging ability, [mm]	>2	ASTM C 836
Minimum application temperature, [°C]	+ 5	-

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.

