Watertite S2003

Multi layer self adhesive waterproofing system

Bituminous waterproofing membrane system for structure upto 3 meter depth

CHARACTERISTICS

- Cold applied, self-adhesive and easy to apply.
- Effective sealing of pin holes and blow holes
- Resistance to puncture and impact.
- Tough and durable
- Self-healing capability against minor punctures
- High resistance against soil and water chemicals.

DESCRIPTION

Damp proofing and moisture barrier protection system comprising of multilayer application designed for underground buried concrete structures which are up to 3 meters deep from the ground level, lying in low water table areas and are continuously exposed to rising ground moisture together with chloride and sulphates in the soil.

FIELDS OF APPLICATION

- villas
- shallow footings and foundations
- base slabs

APPLICATION INSTRUCTIONS

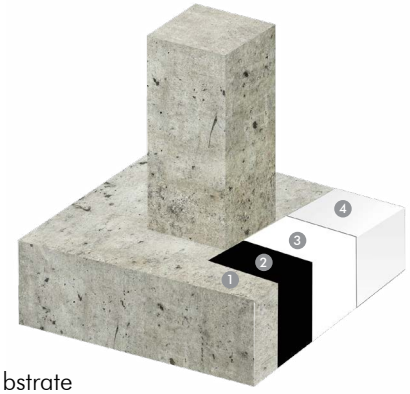
The application temperature should be between 5°C to 45°C. application procedures may vary slightly depending upon site conditions, the general recommended guidelines for the application of the waterproofing system is as follows:

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. all surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired with a suitable concrete repair mortar. Provide a 45-degree cement sand angle fillet on all internal corners and external corners shall have a 20mm chamfer.

Priming

Apply Polyprime SB solvent-based primer at a coverage of 4-6 m2/liter to the prepared clean smooth and dry surface by brush, roller or spray. allow the primer to dry prior to the application of the membrane.



1. Substrate
2. Polyprime SB
3. Bitustick Cool
4. Bitustick R250

Installation

Provide a minimum 200 mm wide reinforcing strip of Bitustick Cool over the cement sand angle fillet in all the corners.

Peel off the release film from the self-adhesive side and start unrolling the membrane and press it to the surface. Smoothen out the membrane from the center to the edges in order to drive out entrapped air with a wooden press. Furthermore, an iron roller shall be used for rolling on top of the applied membrane to ensure a proper and strong adhesion of the bitumen compound with base surface. Side and end overlaps shall be a minimum of 100mm.

2nd Layer / Protection Membrane – Bitustick Cool membrane to be protected with a self-adhesive protection membrane Bitustick R250. Apply Bitutape TS on the end joints and cut joints (wherever selvedge is not available) of Bitustick R250 prior to laying of membrane. The second layer of Bitustick 250 is to be placed at 50% staggered overlap over the first layer of the Bitustick Cool. Unroll and align Bitustick R250 membrane on 1st layer to fit the orientation and roll it back. Now slowly peel off the release film at the back and simultaneously the release film from the top of Bitutape TS and carefully place the membrane without changing its orientation. Selvedge of 50mm width is available only on the sides of the membrane which allows continuous application of the subsequent rolls. The membranes shall be butt-jointed at the laps using Bitutape TS as the joint sealer beneath the butt joints to provide a watertight sealing.

STORAGE & SHELF LIFE

Membranes must be stored in a shaded area on wooden pallets neatly covered by a thick fabric and tied securely in a manner that will minimize exposure to sun light and UV. The membranes shall be protected from all sources of heat and extreme temperatures. The shelf life is 12 months if stored as per recommendations. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life

HEALTH & SAFETY

Watertite S2003 contains a tacky Bitumen compound which can stick to human skin during application. such stains can be removed by using a cloth dipped in a suitable cleaner

DISPOSAL

Watertite S2003 is non-hazardous, non-flammable and therefore can be disposed into any regular disposal area. However, it should be disposed only after wrapping with paper, plastic or cloth as the modified Bitumen has a tendency to soften under heat and pressure which would make further handling very tough. All disposal practices must be in compliance with all local law and regulations.

SUPPLY

	Packing	Unit
Bitustick Cool	20m x 1m x 1mm	Roll
Bitustick R250	10m x 1m x 2.1mm	Roll
Bitutape TS	10m x 100mm x 1.5mm	Roll
Polyprime SB	20L	Pail
Bitumastic	20Kg	Pail

TECHNICAL SPECIFICATION - SYSTEM

PROPERTIES	VALUES	TEST STANDARDS
Thickness, mm	3.1	EN 1849-1
Tensile strength, [L/T], [N/5cm]	>900/700	EN 12311-1
Peel adhesion to freshly poured concrete, [N/mm]	>2.2	ASTM D 1000
Tear Resistance, [L/T], [N]	>600/550	ASTM D 5147
Puncture resistance, [N]	>1100	ASTM E 154
Resistance to hydrostatic pressure, 3 bar	No leakage	EN 12390-8
Low temperature flexibility @ -15°C	No cracks	ASTM D 1970
Chemical resistance	Excellent resistance to chlorides, sulphates, alkalis and acids	ASTM D 543

TECHNICAL SPECIFICATION - COMPONENTS

PROPERTIES	VALUES		TEST STANDARDS
	Bitustick Cool	Bitustick R250	
Thickness, [mm]	1	2.1	DIN EN 1849-1
Softening Point (R&B), °C	>105	>105	ASTM D 36
Tensile Strength	≥15 N/mm²	850/600 N/5cm	ASTM D 882 DIN EN 123-11
Elongation, [%]	>300	30/40	ASTM D 882 DIN EN 123-11
Adhesion to primed surface, N/mm	>0.5	-	ASTM D 1000
Hydrostatic pressure resistance	Pass @ 3Bar	Pass@ 5Bar	BS EN 12390
Puncture resistance, [N]	>30	>900	ASTM E 154

All values given are subject to 5-20% variation

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