

Bituplast

Compound base polyester reinforced bituminous waterproofing membrane

CHARACTERISTICS

- ▶ Ease of application
- ▶ Excellent resistance to positive water & vapor pressure.
- ▶ Good dimensional stability under tension.
- ▶ Resistant to water borne chemicals.
- ▶ Excellent tensile, tear and puncture resistance



DESCRIPTION

Bituplast is a polyester reinforced bituminous waterproofing membrane, manufactured from a mixture of oxidized bitumen. The bituminous compound exhibits high heat and UV stability.

FIELDS OF APPLICATION

Bituplast is designed to be used for Villas & small buildings for the following areas:

- inverted Roofs & terraces
- balconies & patios

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 coating is as follows:

Surface preparation

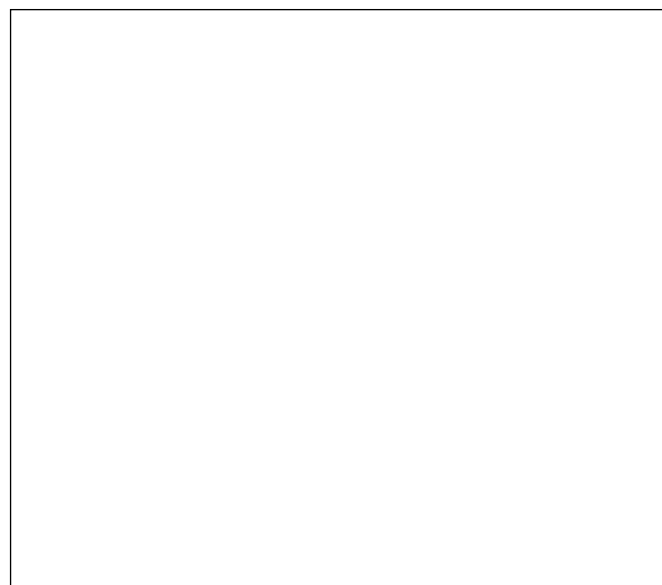
The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired with a suitable POLYCRETE* concrete repair mortar.

Priming

Apply Polyprime SB (Solvent based primer) @ 4-5 m²/L. by brush, roller or spray. Allow the primer to dry prior to the application of the membrane.

Application

Membrane is installed by using a cylinder fed propane gas torch. Use of hand-held roofing torch is recommended as it affords a good control. If multiple burner torching machines



are utilized, care must be taken to ensure the application of uniform heat and avoid overheating of the membrane. Begin torching the embossed polyethylene side of the rolled portion of the membrane. Proper torching procedure involves passing the torch flame in an "L" pattern applying about 75 percent of the heat across the coiled portion of the roll and 25 percent across the substrate, including the lap area of the previously installed membrane. As the membrane is heated the embossing starts to melt away exposing a shiny bitumen surface. Roll forward the membrane and press firmly with the boot or roller against the substrate to bond well. The propane flame should be moved from side to side and up the lap edge while the membrane is slowly unrolled and adhered to the underlying surface. Subsequent shift of the roll shall be avoided after heating has begun. When complete, the remaining un-torched membrane shall be re-rolled and installed in the same manner. When one end is complete, re-roll the opposite end not yet torched, and install in the same manner.

Caution: Do not over torch the membrane as this will expose the reinforcement and cause damage to it.

Sealing

Heat both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when a uniform flow of melted bitumen compound flows evenly in a bead that oozes from the applied membrane's edges. Excess compound should

be pressed into the seam using a heated trowel. Any un-bonded areas must be lifted and re-torched. Do not attempt to reseal by torching the top surface of the membrane.

Overlaps

Side over laps should be a minimum of 100mm and the end over laps 150mm

Up stand

An appropriate flashing membrane shall be lapped with the base membrane and taken up on the parapet wall and tucked into a groove cut into the concrete. The grooves will be sealed with a suitable mastic.

HANDLING

Bituplast membranes are supplied in rolls of 1m x 10m. The rolls are packed in loose boxes to avoid any damage during transit or at site. Care should be taken when storing the membranes on sites and should not be kept within proximity of any sharp or protruding edges to avoid puncturing or damaging the membrane

CLEANING & DISPOSAL

Clean all the tools with water after use. Hardened materials can be removed mechanically only. Use licensed waste disposal contractor and consult the local authorities when disposing.

STORAGE & SHELF LIFE

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate, the product must be stored in air - conditioned environment (<25°C). The product is best performing when consumed within 12 months from manufacturing if stored as per the recommendations.

HEALTH & SAFETY

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Thickness, mm	4	UEAtc
Reinforcement [polyester], g/m ²	160	UEAtc
Weight, Kg/m ²	4.0-4.3	UEAtc
Tensile strength, N/5cm [L/T]	550/400	DIN EN 12311-1
Elongation, % [L/T]	30/40	DIN EN 12311-1
Tear strength, N [L/T]	400/350	ASTM D 5147
Heat resistance @ 100°C	No flow	DIN EN 52123
Resistance to static loading	L ₂₅	DIN EN 12730

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.



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