



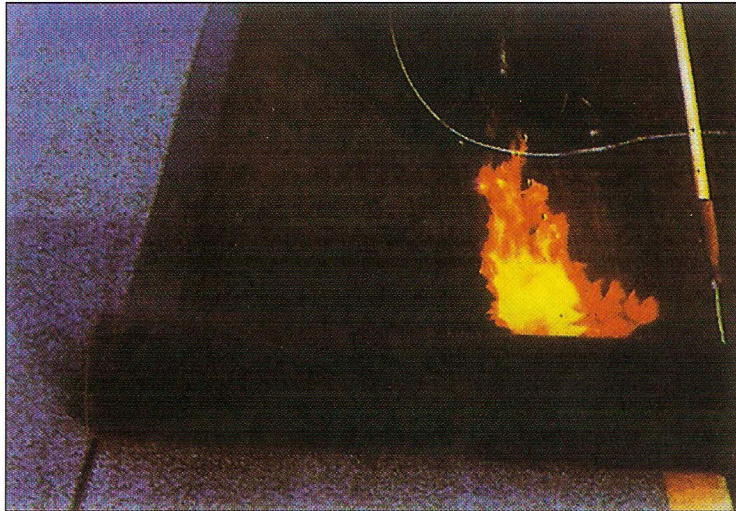
DERMABIT

THE NEW GENERATION 4170/5170 SLATED

APP MODIFIED PLASTOMERIC BITUMINOUS MEMBRANE



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GENERAL DESCRIPTION

DERMABIT 4170/5170 SLATED is a high performance roofing and waterproofing membrane, produced with a layer of natural slate flakes embedded on the top surface, to protect the membrane from UV radiation and ageing, thus protecting the membrane layers beneath while providing an aesthetically pleasing finished waterproofed surface.

SPECIAL FEATURES

- Positive barrier to water and dampness.
- Excellent resistance to ageing and atmospheric agents.
- Remains flexible at low temperatures.
- Maintains shape stability at high temperatures.
- Accommodates structural movements.
- Withstands thermal shock and is designed for use as an exposed system.
- Provided with a lap strip for continuity at seams.
- May be torched directly over old shingles on pitched roofs.
- Attractive colours in natural grey, green, white, black, B Tan or red.
- Resistant to water-borne chemical attack.

COATING MIXTURE OF THE MEMBRANE

The coating mixture of the **DERMABIT** membrane is the waterproofing agent.

The reinforcement made of nominal 200 gm/m² non-woven polyester mat is impregnated with this mixture and then coated to factory regulated thickness. The coating is made up of Bitumen heavily modified with thermoplastic resins, stabilizers and antioxidants. It is this compound that gives the membrane its excellent resistance to atmospheric agents and ageing, maintains shape stability at high temperatures, improves adhesion strength, and makes the membrane easy to apply, thus saving in time and labour.

METHOD OF APPLICATION

The application of **DERMABIT 4170/5170 SLATED** is both easy and quick. Where it can be laid directly in a one-layer system on concrete, tiles or an existing roofing system, a coat of **DERMAPRIMER** at the rate of 200-300 gms/m² should first be applied. Allow this coating to dry thoroughly. In areas of high humidity we recommend it should be left overnight.

As in all other applications, the membrane should first be unrolled and positioned correctly on the surface to be treated. Each roll should overlap the adjacent roll by 10 cms. Once the roll has been positioned correctly, the membrane should be rolled up again, taking care not to change its orientation (you should read our brochure "Application Procedures: for a more detailed explanation.) Using left to right movements, heat the lower surface of the membrane with a propane gas torch. This will cause slight surface melting and adhesion to the substrate.

You then torch on the selvedge making sure that the overlaps are correctly covering the selvedge of 10 cm. Continue the above method for consecutive rolls remembering endlaps must be minimum 20 cms. Optionally **DERMABIT 4170/5170 SLATED** can be ordered with a factory made end-laps selvedge. Inspection of lap joints must be carried out to ensure total adhesion.

SINGLE LAYER APPLICATION

DERMABIT 4170/5170 SLATED may be torched directly over old roof or on pitched roofs. Dust and dirt is brushed off and the old roofing is coated with **DERMAPRIMER**. The membrane is then torched directly onto the roofing beginning at the lower end of the roof and working upwards. Lap joints must shed water.

In re-roofing non-traffic flat roofs, **DERMABIT 4170/5170 SLATED** may also be torched directly to cleaned and primed old tiles. Care should be taken to ensure that a proper slope is maintained and that ponding is eliminated. The same method of application as described above should be adopted.

SIZE AND PACKAGING

DERMABIT 4170 / 5170 SLATED membranes are manufactured and supplied in rolls of 1 x 10 metres. The lower surface is covered with a thin, flammable polyethylene film that is bonded to the membrane, and is burnt off during torching. On request, the bottom surface can also be supplied with sand for hot mop application.

TECHNICAL DATA

DERMABIT PRODUCTS ARE TESTED AT RANDOM INTERVALS BY INDEPENDENT LABORATORIES TO INTERNATIONAL STANDARDS AND THE RESULTS OF THESE TESTS ARE AVAILABLE ON REQUEST. IN ADDITION, EACH BATCH MANUFACTURED IS SUBJECT TO STRICT QUALITY CONTROL PROCEDURES TO ENSURE IT MEETS APPROPRIATE AND APPLICABLE STANDARDS AND/OR NORMS.

PROPERTIES		TYPICAL VALUES	TEST METHOD
Thickness (± 5%)	DERMABIT 4170 Slated 5170 Slated	Min. 4.1 mm Min. 5.1 mm	ASTM D751
Reinforcement core of the membrane		200 gms/m ² Non-Woven Polyester	
Softening point (R+B) of coating mixture		Min. 159 °C	ASTM D36
Penetration (DOW) of coating mixture		10 - 25 dmm	ASTM D5
TENSILE STRENGTH	Longitudinal Transverse	1,000 N/5 cm 704 N/5 cm	UEAtc, ASTM D146
ELONGATION	Longitudinal Transverse	40% 40%	UEAtc, ASTM D146
LOAD STRAIN PRODUCT	Longitudinal Transverse	40,000 28,160	UEAtc
TEAR RESISTANCE	Longitudinal Transverse	170 N 170 N	UEAtc
LAP JOINT STRENGTH	Longitudinal Transverse	> 900 N/5 cm > 650 N/5 cm	UEAtc
PUNCTURE RESISTANCE	Static Dynamic	L 4 (Not perforated at 25 Kg. 10 mm ball) I 4 (not perforated at 9 joules impact energy, 5 mm ball)	UEAtc
Shape stability at 120°C or 248°F		No deformation	UEAtc
*Flexibility at low temperatruue (-2°C to -15°C)		No cracking	UEAtc
Service Ambient Temperature		-20°C to 100°C	
Creeping of the membrane applied on 60° sloped surface at a Test Temperature of 1000 during 120 Hours of Test		No Creeping	UEAtc
Impermeability of the membrane to water		Absolutely Impermeable	UEAtc
Resistance to Thermal Ageing		No Signs of Deterioration after the test	UEAtc
Resistance to Ageing due to UV-Radiation		No Signs of Deterioration after the test	ASTM G53
Adhesion strength of the membrane fully bonded to a concrete deck, previously treated with Dermaprimer.		0.8 Kg/cm ²	UEAtc
DERMABIT Membranes are resistant to chlorides, sulphates and phophates found in ground water.			

*Flexibility at low temperature can be altered depending on prevailing climatic conditions or client's request.

PACKING CONFIGURATION

DERMABIT 4170 SLATED 23 Rolls per pallet
DERMABIT 5170 SLATED 18 Rolls per pallet

The above data are average figures obtained from the tests of various samples and are subject to the tolerances defined in the specified test methods.

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