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A SEMI-FLEXIBLE, VAPOUR-PROOF, WATER AND PUNCTURE RESISTANT PROTECTION BOARD



PRODUCT DESCRIPTION

ARMOPROOF is a tough, semi-flexible premoulded bituminous board for use as a protection course to waterproofing against backfill for below grade areas, and against damage caused by construction traffic, concreting or other toppings in horizontal areas.

BASIC RULES

Protection to waterproofing membranes and coatings in foundation walls and slabs, parking and plaza decks, wet room floors, roof terraces, tunnels, bridge decks, planters, pools and fountains, etc. **ARMOPROOF** provides positive protection not only during construction activities and backfilling, but also at the time of later settlement.

COMPOSITION

ARMOPROOF is produced with a hard mix of bitumens, fillers and modifiers held together with two carriers, providing a superior puncture resistance and low deflection coefficient while maintaining sufficient degree of flexibility to accommodate normal site usage. The surface finish can be either sand (standard) or PE foil depending on the intended application.

FEATURES

- Withstands normal construction abuse and impact from backfilling operations
- Protection against construction traffic, concreting and other topping works
- Rotproof - unaffected by permanent or periodic immersion in ground water
- Resistant to salts, chlorides and other chemicals normally found in soil
- Impermeable to water and low vapour transmission - enhances water tightness
- Semi-flexible. Can be bent to normal contours while maintaining rigidity
- Stable at high temperatures while retaining flexibility in cold weather
- Excellent resistance to puncture and normal site handling
- Can be applied by adhesive or by torch (see Installation Section)

FORM OF SUPPLY

ARMOPROOF is supplied in sheet of 1M x 2 M standard thickness of 3.5 mm and 6.5mm. Other thickness can be supplied against special order.

COMPATIBILITY

ARMOPROOF is compatible with all cold applied and hot applied bituminous waterproofing membranes and liquid applied systems, butyl rubber and PVC sheeting, polyurethane liquid coatings, cured coal tar systems, etc. For specific enquiries regarding compatibility, contact your nearest DWI representative.

INSTALLATION

Install protection boards continuously over the membrane, staggering the joints whenever possible. Cut **ARMOPROOF** with roofer's knife as required to obtain complete coverage and a neat overall finish. For maximum protection all butt joints can be taped with 50mm wide fibre glass reinforced self adhesive tape.

On vertical areas spot bond the boards with Dermoplast or Dermaflash or neoprene adhesive, using temporary supports where necessary. At higher temperatures, specially for the 6.5mm thick sheets, it may be necessary to leave the supports in place until backfilling operation. In horizontal areas spot bonding at the corners and sides of the boards will be sufficient to avoid slippage during work over the boards.

In certain cases the boards can be lightly torched and then applied to the membrane for a permanent fix; consult your nearest DWI representative for more details (use PE foil faced boards for this purpose).

Backfilling, concreting or application of wearing courses over the boards can commence after the installation of

ARMOPROOF. Backfilling must be done with care to avoid dragging the boards down.

STORE / HEALTH HAZARDS

Keep boards stored on pallets placed on level surfaces under shade or cover. Do not stack more than 2 pallets high.

There are no health hazards associated with normal usage. Wear gloves while handling to avoid injury.

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
Board Thickness	3.5 mm	6.5 MM	ASTM D751
Weight of the Board	9 Kgs ± 0.5 Kg	16.5Kgs ± 0.5 Kg	
Density	1.28	1.28	Dermabit DEN 1/99
Softening Point	>135 Deg. C	> 135 Deg. C	ASTM D36
Penetration at 25 deg. C. of coating mix	4-10 dmm	4-10 dmm	ASTM D5
Water Absorption	0.52%	0.73%	ASTM D570
Static Indentation Resistance	L ₄ not perforated in 25 Kg in 24 hours	L ₄ not perforated in 25 Kg in 24 hours	UEAtc
Puncture Resistance	> 1500 N / 32 mm (315 lb.f)	> 1500 N / 25 mm (360 lb.f)	ASTM E154

Environment Test (ASTM D543)

Irrespective of thickness ARMOPROOF is resistant to chlorides, sulphates and phosphates found in ground water.

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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Submitted by :

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