

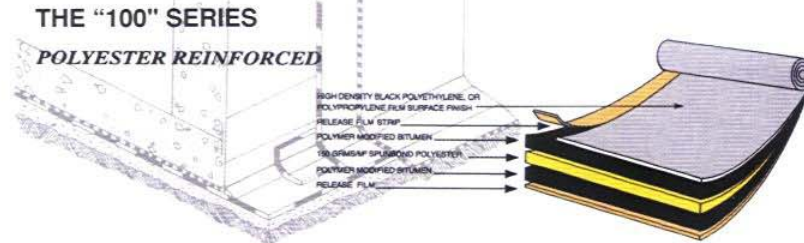


ADESOLBIT



PUBLICATION NO.: 401-100/FEB '05

A PRE-FABRICATED REINFORCED ELASTOMERIC MULTI-PLY WATERPROOFING MEMBRANE FOR STRUCTURAL CONCRETE



GENERAL DESCRIPTION

ADESOLBIT is a self adhesive cold applied ELASTOMERIC modified bituminous waterproofing sheet membrane preformed by impregnating and coating a robust, rotproof, damage-resistant core reinforcement with a polymer-modified rubber compound.

ADESOLBIT 100 series comes with a 160 gms/M² non- woven Spunbonded Polyester reinforcement. Plus a choice of laminations listed below.

- High Density Polyethylene (HD PE)
- Smooth Polypropylene (SMPP)

The complete range of **ADESOLBIT** products has, as standard, a siliconised release film. This Protects the adhesive side of the finished membrane during storage in roll form, and is removed on application. A seldge provides excellent adhesion at overlaps, i.e. Bituminous Compound to Bituminous Compound.

FEATURES

ADESOLBIT membranes provide an excellent barrier against vapour and water, above or below ground, and are ideal for the protection of substructures where corrosive ground water salts are present.

ADESOLBIT has excellent elongation and recovery characteristics and will therefore accommodate movement.

ADESOLBIT is also Self-Sealing to minor punctures. All **ADESOLBIT** membranes, apart from the Aluminium and Slate finishes, must be protected from the elements and site traffic on completion of application. This can be done by using **ARMOPROOF** or **ADESOLBIT** or a sand and cement screed.

USES

The **ADESOLBIT** range of membranes now available is both versatile and easy to use in most construction applications worldwide.

Apart from the standard finishes shown above **ADESOLBIT** is now available in Aluminium and Slate finish. These finishes can be applied to roofs in exposed conditions using just one layer. The standard finishes are suitable for Tanking -

Foundations - Basements - Footings - Retaining Walls - Kitchens - Bathrooms - Balconies and covered roofs. There is separate Date Sheets for the Aluminium and Slate Finishes.

ADVANTAGES OF ADESOLBIT

- EASE OF APPLICATION.
- SELF ADHESIVE.
- BONDS DIRECTLY TO PRIMED SUBSTRATE.
- COLD APPLIED.
- LESS HAZARDOUS.
- SELF SEALING TO MINOR PUNCTURES.
- PROVIDES A UNIFORM THICKNESS.
- BUILT-IN REINFORCEMENT.
- TEN YEAR WARRANTY AGAINST DEFECT.

APPLICATION PROCEDURES

1. Application User Guide

Concrete should be free of voids, hollows, honeycombs, loose or coarse aggregates and sharp protrusions. The concrete surface should be a floated finish.

It is recommended that Concrete should be at least eight days old. In particular situations, the membrane can be applied at an earlier time depending on site conditions.

Concrete Curing Compounds should be tested for compatibility, or removed.

All surfaces should be dry and free from dirt, dust, oil and grease.

Forms below horizontal slabs should be removed as early as possible to avoid entrapment of excessive moisture.

2. Priming

Use **PRIMER** at the rate of 300 gms/m². Spread out evenly, do not over-apply. Allow primer to cure. On curing, any patches of discolouration should be treated again. Only the area that can be covered by membrane in one working day should be primed. Areas left exposed for more than 24 hours should be given a further coat of **PRIMER**.

3. Fixing Membrane

Remove the release film by peeling back not more than 30 cms at a time. Start to unroll the **ADESOLBIT** membrane keeping the adhesive side face down on the primed surface (See illustration). Press down the membrane, working from the centre to the outer edges. This will expel all trapped air, ensuring good adhesion to the primed substrate that the membrane is being applied to.

4. Overlaps and Seams

ADESOLBIT membranes are produced with a seldge to facilitate forming lap joints, while ensuring continuity of the membrane. Once the first roll has been applied to the substrate, place the next roll alongside same overlapping the seldge, rolling out and aligning properly. Once this procedure is completed roll back the membrane without changing the given orientation. Then peel back the seldge release strip from the first roll no more than a metre at a time. Peel back the release film on the second roll using the same method above. The overlaps should then be pressed firmly down using a light roller if possible. End laps should be formed using a minimum end lap of 15 cms. These should also be pressed firmly down or rolled if possible.

5. Protection of Membrane and Backfilling

ADESOLBIT should always be protected to avoid damage caused by other trades, backfilling equipment and material. The use of **ARMOPROOF** or **ADESOLBIT** is highly recommended especially on vertical surfaces. Other forms of protection can be accepted, however, care should still be taken to ensure that the membrane is not damaged by tools and earth moving equipment.

Screeds, topping and tiles should be laid as soon as possible, preferably the same day the membrane is applied.

Under no circumstances should the membrane be left exposed for longer periods.

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.

TECHNICAL DATA FOR **ADERMABIT** 100 SERIES

| PROPERTIES | TYPICAL VALUES | TEST METHOD |
|--|---|-------------|
| REINFORCEMENT | 150 g/m ² NON WOVEN POLYESTER MAT | UEAtc |
| TENSILE STRENGTH OF MEMBRANE | | |
| LONGITUDINAL | 650 N/ 5 cm | ASTM D 5147 |
| TRANSVERSE | 450 N/ 5 cm | |
| ELONGATION AT BREAK OF MEMBRANE | | |
| LONGITUDINAL | 55% | ASTM D 5147 |
| TRANSVERSE | 75% | |
| TEAR RESISTANCE | | |
| LONGITUDINAL | 475 N | ASTM D 5147 |
| TRANSVERSE | 275 N | |
| RESISTANCE TO HYDROSTATIC PRESSURE | 110 PSI (77.3m) | DIN 1048 |
| PUNCTURE RESISTANCE | DYNAMIC | ASTM E154 |
| | STATIC | UEAtc |
| SOFTENING POINT | > 105 °C | ASTM D36 |
| PENETRATION AT 25 °C | 60 - 110 dmm | ASTM D5 |
| FLEXIBILITY AT LOW TEMPERATURE | - 15°C - NO CRACKING | UEAtc |
| WATER ABSORPTION | 0.10% | ASTM D5147 |
| CHEMICAL RESISTANCE | CONFORMS | ASTM D 543 |
| WATER VAPOUR PERMEABILITY | < 0.1 G / 24 hr / M ² | ASTM E 154 |
| ADHESION TO SELF (SIDE SELVEDGE OVERLAP) | 2.1 N/ mm | ASTM D 1000 |

| | AD 1600 | AD 2100 | AD 3100 | AD 4100 |
|------------------------|----------|----------|----------|----------|
| ROLL SIZE | 1 x 15 M | 1 x 15 M | 1 x 10 M | 1 x 10 M |
| NOMINAL THICKNESS | 1.6 MM | 2.0 MM | 3.0 MM | 4.0 MM |
| NOMINAL WEIGHT KG/ROLL | 25 | 30 | 34 | 44 |
| ROLLS PER PALLET | 33 | 30 | 30 | 23 |

* THE SOFTENING POINT VARIES BETWEEN 105°C TO 125°C DEPENDING UPON CLIENT'S REQUIREMENTS OR COMPLIANCE WITH SPECIFIC STANDARDS.

HANDLING & STORAGE

All care should be taken in storing **ADERMABIT**. Rolls should be stored vertically and must never be stacked. **ADERMABIT** must always be stored in dry, covered storage areas.

APPLICATION TEMPERATURE RANGE

When application temperature drops below 20°C (68°F), it is essential to heat the primed surfaces before applying the membrane. This can be done with a gas torch or hot air blower. At surface temperature below 5°C (40°F), care should be taken to ensure that all surfaces are free from condensation, ice/frost. Material stored at temperatures below 20°C (68°F) should be left exposed to warmer temperatures for at least 6-8 hours before application. Ambient temperatures above 50°C may give rise to difficulty in removing the release paper, and such material should be relocated to cooler areas.

ADERMABIT is warranted to be free of manufacturing defects for a period of ten years.

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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