



Euro Polymers (GB) Ltd.

Wychwood House,
3 Saxton Lane,
Leeds,
LS9 8HE.

Product Profile

EUROBIT 810

High Performance, Liquid Applied Waterproofing

**EUROBIT 810 IS A
LIQUID APPLIED,
HIGH PERFORMANCE
BITUMINOUS SOLUTION
MODIFIED WITH
SYNTHETIC POLYMERS.**

urobit 810 is used to form a waterproofing sandwich membrane for above and below ground concrete, brickwork, and blockwork. Applied by brush, roller or airless spray.



1. Applications

- Roofs (non-exposed)
- Bathrooms, Kitchens & Shower Areas
- Floor Slabs
- Basements
- Swimming Pools
- Planter Boxes
- Roof Gardens
- Tunnels
- Bridge Abutments

2. Benefits

- Seamless - Conforms easily to complex details and irregular surface profiles.
- Extremely high tensile strength and elongation.
- Dynamic structural crack bridging capability of more than 40 mm.
- Simple and rapid application.
- Good chemical resistance.
- Can be applied to surface dry and green concrete.
- Fully bonded system.
- Tins can be opened and re-sealed with no surface skinning inside the can.

3. Design Data

Standards

The product offers levels of protection required for below ground structures described in BS 8102 : 1990, grades 1,2,3 and 4.

Durability

The product is impervious to water, and when fully protected and subjected to normal service conditions, will provide an effective barrier to the transmission of liquid water and water vapour for the design life of the structure in which it is incorporated.

Resistance to Mechanical Damage

The membrane can be damaged by sharp objects and should be protected against all construction activities and traffic.

Adhesion

The membrane has excellent adhesion to correctly prepared substrates without the need for a primer.

Movement Joints

The product accommodates most anticipated structural cracking, but will not replace the need for conventional sealants and waterstops at movement joints. Refer to 6.0 for specific installation instructions at these details.



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4. Typical Physical and Performance Properties

| | |
|-------------------------------------|--|
| Colour | Black |
| Specific Gravity | 1.00 |
| Non Volatile Content | 75% |
| Solvent Type | Aromatic Hydrocarbon |
| Flash Point | 24° centigrade |
| Maximum Service Temperature | 80° centigrade |
| Packaging | 25 Litre Pails 200 Litre Drums |
| Storage Life | 1 year in original containers, out of direct sunlight |
| Tack Free Time | 1 hour dependant on temperature & humidity |
| Full Cure | 24 hours |
| Recoat Time | 24 hours |
| Full Physical Properties | 7 days |
| Water Vapour Permeability DIN 52615 | 33×10^{-12} kg / m ² sPa |
| Water Vapour Transmission ASTM E96 | 1.67 gm/m ² /24 hours |
| Adhesion Strength ASTM D4514 | > 0.8 N/mm ² |
| Elongation at Break ASTM D412 | > 1250% |
| Tensile Strength ASTM D412 | > 2 N/mm ² |
| Crack Bridging EN 1062-7 | > 40 mm |
| Original | Pass |
| 0.5% Sodium Hypochlorite | Pass |
| 1.25 Ammonium Hydroxide | Pass |
| 3.7% Hydrochloric Acid | Pass |

5. Delivery and Site Handling

Supply

The product is supplied in 5, 25 and 200 Litre Drums, each drum bearing the product name and manufacturing batch code.

Health and Safety

The product is flammable, and should be stored in a cool place out of direct sunlight. Refer to product Material Safety Data Sheet for detailed information.

Shelf Life

The product has a minimum shelf life of one year when stored in a cool place out of direct sunlight.

6. Installation

Substrates

- New concrete, screed or render should have a brushed or wood float finish, and should be free from contamination by any material which could impair adhesion. All surface defects should be repaired by approved methods. Protrusions greater than 3 mm should be removed.
- Existing concrete, screed or render should be well prepared to provide a dense, defect free substrate.
- Brickwork, blockwork and masonry should be flush pointed.
- All substrates should be dry.

Application

Apply using a wide nylon brush, sheepskin disposable rollers or airless spray. The product must not be applied in wet or freezing conditions or if these conditions are likely to occur before the membrane has dried. The product is always applied in 2 equal coats, allowing the first coat to dry fully before a second coat or protection is applied. Normal recoat time is 24 hours.

Clean tools using white spirit or Hydrocarbon solvent.

Coverage Rates

| Risk Level | Coverage (Per Coat) | WFT (Per Coat) | DFT (Total 2 Coats) |
|------------|---------------------------|-------------------|------------------------|
| Standard | 0.5 litres/m ² | 500 microns | 750 microns |
| Critical | 1.0 litres/m ² | 1.0 mm | 1.5 mm |

Protection

The membrane must always be protected by a layer of concrete, a screed of 50 mm minimum thickness, or by brickwork or blockwork. Alternatively, the membrane should be protected during backfilling by a thickness of EP Protection Board. Care should be taken to avoid membrane damage during these operations.

Internal Tanking

When subjected to negative water pressure, the membrane should be internally loaded by erecting a single skin of brickwork or blockwork with a minimum 20 mm cavity. The cavity should be filled using an approved non shrink grout as construction proceeds.

Movement Joints

The membrane should be reinforced at movement joints using Euroseal 800 self adhesive membrane, and by applying additional layers of product in these areas. Refer to Euro Polymers for specific recommendations.

Day Joints

At day joints, the liquid membrane should overlap the existing cured membrane by at least 100 mm. If the lapping joint is dirty or contaminated, clean using an approved solvent.

7. Quality Control

Film Thickness

At least one wet film thickness measurement shall be taken for every 5 m² installed.

Consumption

Daily completed areas should be measured against quantities of materials used, to ensure correct coverage.



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8. Drawings and Detailing

Eurobit 810 is used in a wide variety of applications, which makes the use of standard details inappropriate in this product profile. Consult Euro Polymers for CAD assistance.

Euro Polymers International

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