

## EUROTEC 500 IS A LIQUID APPLIED, HIGH PERFORMANCE POLYMER SOLUTION WHICH FORMS A TOUGH, ELASTIC MEMBRANE.

Eurotec 500 is used to form a waterproofing sandwich membrane for above and below ground concrete, brickwork, and blockwork where movement is anticipated

### 1. APPLICATIONS



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

### 2. COST BENEFITS

- Simple and rapid application.
- Overcoat in 4 hours in ventilated conditions.
- Can be applied to surface dry and green concrete, without primer.
- Tins can be opened and re-sealed with no surface skinning inside the can.

### 3. GUARANTEED DURABILITY

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

Eurotec 500 is applied in colour coded coats for visual quality assurance. It is immediately 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.

### 4. TYPICAL PHYSICAL & PERFORMANCE DATA

Form	Coloured Liquid (Red & Yellow)
Specific Gravity	1.00
Non Volatile Content	50%
Solvent Type	Aromatic Hydrocarbon
Water Vapour Permeability DIN 52615	$33 \times 10^{-12} \text{Kg} / \text{m}^2 \text{sPa}$
Water Vapour Transmission ASTM E96	1.67g /m <sup>2</sup> /24 hours
Diffusion Coefficient for Radon	$1.7 \times 10^{-13} \text{m}^2 \text{s}^{-1}$
Diffusion Length for Radon	0.28mm
Coverage Rate	0.5 - 0.75 Litre / m <sup>2</sup> / Coat (2 coats)
DFT of Coating	WET 0.5mm to 0.75mm. DRY 0.25mm to 0.38mm
Curing Time	4 to 8 hours
Overcoat Time	4 to 8 hours
Tensile Strength	> 4.0N/mm <sup>2</sup>
Elongation	>1000%
Application Temperature Limits	5 to 35°C
Sulphate Resistance	50,000 ppm sulphate
UV Resistance	Good.
Shelf Life	12 Months
Pack Sizes	5 & 20Ltr

## 5. 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 4 to 8 hours. Clean tools using white spirit or Euro Polymers Solvent Wipe No1.

Waterproofing integrity assisted by two colour coat application, providing visual assurance of application. Applied in two coats (red first).

### Coverage Rates (Two coat application)

Coverage	Wet Film Thickness (Per Coat)	Dry Film Thickness (Per Coat)
0.5 to 0.75 Litre/ M <sup>2</sup> /Coat	0.5 to 0.75mm	0.25mm to 0.38mm

### 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 801 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.