



VOLSEAL 100®

BITUMINOUS POLYMER-MODIFIED LIQUID MEMBRANE

DESCRIPTION

Volseal 100 is a liquid-applied, synthetically modified high performance bituminous solution.

APPLICATIONS

Volseal 100 is used to form a waterproofing sandwich membrane for above and below ground concrete, brickwork, and blockwork.

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

ADVANTAGES

- Simple and rapid application.
- Overcoat in 8 – 12 hours in ventilated conditions.
- Can be applied to surface dry and green concrete, without primer.
- Tins can be opened and re-sealed with no skinning inside the can.

DURABILITY

Volseal 100 is immediately impervious to water and when fully protected by Protection Board under

normal site 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.

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

INSTALLATION

Preparation

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 3mm 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 and application must take place during periods free of precipitation.

Application

Apply using a wide nylon brush, sheepskin disposable rollers or airless spray. 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 8 to 12 hours.

Protection



The membrane must always be protected by a layer of concrete, a screed of 50mm minimum thickness, or by brickwork or blockwork. Alternatively, the membrane should be protected during backfilling by a thickness of 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 20mm 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 Volsheet FB Seam Tape and by applying additional layers of product in these areas. Refer to our Technical Department for specific recommendations.

Day Joints

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

CLEANING

Clean tools using white spirit or Hydrocarbon solvent.

LIMITATIONS

The product must not be applied in wet or freezing conditions or if these conditions are likely to occur before the membrane has dried.

TECHNICAL DATA

Form Black liquid

Specific Gravity	1.00
Non Volatile Content	70%
Solvent Type	AromaticHydrocarbon
Water Vapour Permeability DIN 52615	33 x 10 ⁻¹² kg/m ² sPa
Water Vapour Transmission ASTM E96	1.67g/m ² /24 hours
Radon Diffusion coefficient	1.7 x 10 ⁻¹³ m ² s ⁻¹
Radon Diffusion Length	0.28mm
Coverage Rate	0.5-1.0L/m ² /coat x 2
DFT of Coating	0.35-0.7mm/coat
Curing Time	12 to 24 hours
Overcoat Time	12 to 24 hours
Tensile Strength	>1.5N/mm ²
Elongation	>1250%
Application Temperature	5 to 35°C
Sulphate Resistance	50,000 ppm sulphate
UV Resistance	Protect within 28 days

SIZE & PACKAGING

Pack Sizes 5, 25 & 200 Litres

Coverage

0.5 – 1.0 L/m ² /coat (surface dependant)	
Two coat application	
Wet Film Thickness	0.5-1.0mm
Dry Film Thickness	0.375-0.75mm

HEALTH & SAFETY

There are no health & safety implications in the normal use of this product

NOTES

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee.

Further information is available from our technical department.



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