



ClimaShield Liquid DPM

Technical Data Sheet

Appearance	Semi-gloss Finish
Coverage	4 m ² / per litre
Application Temperature	+6°C to +35 °C
Service Temperature	-20 °C to +50 °C

DESCRIPTION

ClimaShield Liquid DPM is an advanced styrene butadiene latex-based liquid membrane which offers a simple method for multiple waterproofing and vapour-proofing applications.

The product is formulated with fillers, pigments, and film control agents. It is water-based and is FREE of solvents and plasticisers. ClimaShield Liquid DPM has been independently tested and found to be an effective guard against Radon gas.

- Blocks penetrating damp on interior walls and ceilings in two coats
- Highly effective damp-proof paint for internal walls that can be applied to damp surfaces
- Can be painted over with standard emulsions or wallpapered over when dry

Adhesion of ClimaShield Liquid DPM to substrate.

The liquid membrane adheres well to a large range of substrates. However, it may appear that the peel strength to the substrate floor is sometimes poor. This is because the high tensile strength of the film allows it to be peeled away without breaking, whereas with low tensile strength membranes, the film breaks before it can be peeled away.

Adhesion of materials onto dried ClimaShield Liquid DPM membrane.

Many wet-applied cementitious materials bond well with ClimaShield Liquid DPM, particularly if they contain polymers. When applying polymer-free materials such as screed, render or plaster, the highest adhesion result is obtained if the material is applied as soon as the ClimaShield Liquid DPM is touch dry. Alternatively, the surface of the undried ClimaShield Liquid DPM can be blinded with clean, sharp sand to provide a form of mechanical key to the subsequent coating.

ADVANTAGES

- Single pack system.
- Non-toxic, non-hazardous, solvent and plasticiser free.
- Good bond to many substrates.
- Water-based compounds that can be applied even to damp backgrounds.
- Low water vapour permeability.
- Quick drying. Typically touch dry in 1 hour.
- Resistant to silage acids.
- Toughness, high flexibility, extensibility, and good crack-bridging properties.

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- Non staining and stain blocking.
- Alkali resistant can be applied to alkaline surfaces.
- Available in a range of colours including our NEW Black colour!
- Bonds strongly with, Concrete, Brick, Lightweight aggregate, Blocks, Plaster Board, Steel, Lead and Plywood.

Refer to these individual product data sheets for detailed application guidance published on our website

www.smartseal.co.uk.

SURFACE PREPERATION

To achieve the best results from ClimaShield Liquid DPM the background surfaces should be smooth or have a light even texture. Any masonry should be flush pointed and defects in existing surfaces made good. The surface needs to be clean, sound, and free from dust, loose materials, or free surface water. It is sometimes advantageous to pre-wet concrete or masonry backgrounds so that these are damp but free from any water glistening on the surface, to aid the wetting out of the background.

APPLICATION

ClimaShield Liquid DPM may be applied by brush, roller, or airless spray* and is effective in many situations e.g.,

- Floors: Under screeds (or above screeds) to provide a damp-proof membrane.
- Basements: As part of a waterproofing system beneath ground level.
- Walls: Under render or plaster as a water or vapour barrier.
- Water Storage: The membranes perform well even when continuously immersed in water.
- Silage Storage: The membrane protects concrete from silage attack.
- Gas Barrier: To minimise methane/radon transmission.
- Tiling: As a secondary protection under tiles in wet areas e.g., bathrooms, balconies, and food processing areas.

The membrane should not be applied in wet conditions or when these conditions are likely to occur before the membrane is dry. Nor should it be applied when the temperature of the background or the air temperature is below 7 °C. Due to the diverse variety of background types and site conditions, it is always advisable to check adhesion to the background by testing on a sample area before starting any job. If necessary, ClimaShield Liquid DPM can be diluted with up to 10% water. However, care should be taken to ensure that the correct dry coat thickness is applied. The thickness of the dried membrane per coat depends upon the method of application.

*For a single dry coat thickness of more than 0.3mm it is recommended that the membrane be applied by airless spray. If airless spray is used, single dry coat thicknesses of up to 1mm can be obtained. (Note: A single coat of 0.6mm dry thickness or more will require a greater drying time than for the equivalent multi-coat application). If two coats are being applied, it is recommended that they are applied at right angles to each other. Before application of the second coat, the first coat must be allowed to become touch dry. The time required to achieve this will vary depending on the prevailing

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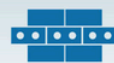
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site conditions but will typically be in the order of 1 hour. The second coat should be applied within 24 hours of the application of the first coat. After all coats have been applied the membrane should be left at least 4 days before attempting any ponding tests.

Under unfavourable drying conditions, this period may need to be extended. Note: A primer coat and cement enhance the bond strength of concrete, brick, ceramic tiles, and steel.

CLEAN UP

Brushes can be cleaned in warm soapy water.

COVERAGE

4 m² / per litre

PACKAGING

ClimaShield Liquid DPM is supplied in 5 & 10-litre plastic buckets.

SHELF LIFE & STORAGE

The product has a shelf life of 12 months unopened from the date of manufacture, subject to correct storage conditions. Store upright in original sealed packaging in a cool dry place, out of direct sunlight. Keep out of reach of children.

HEALTH & SAFETY

This product is classified as an irritant and users should avoid splashing when handling the product and wear appropriate protective clothing, impervious gloves and eye protection during application. In case of contact with skin or eyes rinse the affected area immediately with copious amounts of clean water. Repeated/prolonged contact with the skin may cause sensitisation. Should irritation persist seek medical attention. Keep children and pets away from the treated area until the biowash has fully dried.

- If applying by spray wear a face mask, disposable gloves and coveralls
- Avoid contact with skin and eyes
- If contact occurs wash immediately with plenty of water
- Keep out of reach of children
- Ensure good ventilation during application and drying
- Always dispose of empty packaging responsibly

This product is non-flammable. Before using this product read the Material Safety Data Sheet which can be obtained at www.smartseal.co.uk or by calling the SmartSeal Technical Dept. Tel: 01268 722500

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