

Bitumen / rubber latex damp proofing emulsion

Uses

Mulseal DP is a bitumen rubber / latex compound designed for use in damp proofing applications. Mulseal DP is suitable for uses such as a damp proof membrane to retaining walls, as a vapour barrier to panels and repairing fine cracks in asphalt surfaces.

Advantages

- Excellent adhesion to most common building materials
- Low water vapour permeability
- Can be applied to “green” concrete
- Resistant to sulphates and ground salts
- Dries to a flexible film
- Simple to apply by brush

Description

Mulseal DP single part bitumen latex emulsion is applied by brush or squeegee. The incorporation of rubber latex imparts elasticity to the dried coating. Mulseal DP is suitable for use on most building materials such as concrete, brickwork, metals and stone. It is easily applied and may be used on damp surfaces, provided that no free water is present. It can also be applied to “green” concrete immediately shuttering has been struck. Where it is used as a sandwich membrane in floors, Mulseal DP should have continuity with the damp courses.

Standards compliance

DTp Specification for Highway Works May 2005 series 2000 clause 2004.

Specification clauses

Where shown on the drawings, the damp proofing/vapour barrier membrane shall be Mulseal DP from Fosroc. Surfaces shall be prepared and the product applied in accordance with the manufacturer’s current data sheet.

Properties

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|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form: | Thixotropic liquid |
| Solids content: | 60% |
| Density: | 1.00 kg/litre |
| Application temperature: | 5 to 50°C |
| Drying time: | 4 to 6 hours. 24 hours should be left between coatings. Mulseal should not be applied in enclosed spaces unless there is adequate circulation of air to allow for evaporation of water |
| Coverage: | Typically 1.1 - 2.1 m ² /litre per coat, but will depend upon the nature of the surface being treated |

Application instructions

Preparation

Surfaces shall be clean and free from dust, dirt, oil, grease, moss and loose material. Mulseal DP may be used on damp surfaces such as green concrete, brick or block work but there must be no standing water. Metal and timber surfaces should be dry and primed with one coat of Fosroc Primer B2. All other surfaces should be primed with a coat of a 1:1 mixture of Mulseal DP and water.

Application

Mulseal DP may be applied by brush or squeegee. For most purposes two full coats should be considered a minimum requirement. Where required Mulseal DP may be reinforced by a bedding layer of bitumen saturated glass fibre into the first full coat prior to application of subsequent coats. When used as a sandwich damp course to ground slabs, the final coat should be blinded with clean sharp sand passing through a 3 mm sieve to provide a key for the second concrete pour.

Limestone should not be used. Mulseal DP is water based and remains soluble until thoroughly dry. Do not apply during rain or when rain is expected.

Priming

Porous surfaces such as concrete or block work must be treated with a priming coat made up of a solution of Mulseal DP and clean cold water mixed in equal parts.

Metal and timber surfaces must be primed with a coat of Fosroc Primer B2 before applying. Mulseal DP can be applied by brush or squeegee. It must be thoroughly stirred before use. For efficient damp proofing, a minimum of two full coats must be used.

For horizontal surfaces, a squeegee or a cheap, soft bristle broom is satisfactory. For vertical surfaces, use a cheap expendable brush. A useful technique that may be employed to keep brushes clean when using Mulseal DP is as follows:

Mix a strong solution of detergent and water, minimum 5 litres. Soak the brush in the solution and shake out before use. As work progresses, rinse the brush at intervals to prevent it clogging and shake out surplus detergent solution before resuming. Mulseal DP should be laid on to the surface using the brush in one direction and not brushed out. During a break in work or when it is completed, clean the brush in a strong detergent solution and then in running water. Clean off any remaining Mulseal DP with white spirit, allowing the spirit to evaporate before re-using the brush. Brushes should be of an inexpensive type and considered as expendable. Paint brushes are not suitable. On the larger job, it is preferable to maintain several brushes in use.

Mulseal is supplied ready for use. If, however, after thorough agitation the product appears unduly thick it can, as an exception, be thinned with not more than 0.25 litre of clean water per 5 litres of Mulseal DP.

Fosroc® Mulseal DP

Cleaning

Splashes of Mulseal DP on paintwork, etc, should be wiped off at once with a damp cloth. Cured material can only be removed mechanically.

Ancillary materials

Fosroc Primer B2.

Estimating

Supply

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|-------------------|--------------------------------------|
| Mulseal DP: | 5 litre tins, 25 and 200 litre drums |
| Fosroc Primer B2: | 5 litre tins |

Yield

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|--------------------------------------|----------------------------------------------------------------------------------------|
| Mulseal DP Coating | 1.1 to 2.1 m ² /litre per coat 0.91 - 0.48 litre/m ² per coat |
| Mulseal DP 1.1 dilution priming coat | 2.0 to 4.5 m ² /litre 0.50 - 0.22 litre/m ² per coat |
| Fosroc Primer B2 | 6 to 8 m ² /litre |

Coverage and yield will vary, depending on substrate profile and density.

Limitations

Protect from frost during storage. Mulseal DP is damaged by freezing. Mulseal DP should not be used if rain or frost is expected, but frost will not affect the dried film.

Storage

Store in original unopened packaging, in cool dry conditions, away from sunlight.

Mulseal DP should be protected from frost.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

Fire

Fosroc Primer B2 is highly flammable. Keep away from sources of ignition. No smoking. In the event of a fire, extinguish with CO₂ or foam. Do not use water.

Flash points

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| Fosroc Primer B2 | 0°C |
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Important note

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