

## Moisture Barrier 1 Coat

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### Technical data

Appearance	Uniform liquid
Colour	Grey
Finish	Semi-gloss
Specific gravity	Ca. 1.1 kg/l
Viscosity	Ca. 2500 cps
Recoat time	1 hr @ 25 °C
Adhesive can be applied after	16 hrs @ 25 °C
Adhesive must be applied within	72 hrs (after 72 hrs → recoat)
Full cure	7 days at 25 °C
Weight solids	54 ± 2%
Volume solids	43 ± 2%
Water vapour transmission (ASTM E96-05)	16.5 g/m <sup>2</sup> /24hrs
VOC (APAS D181)	45.3 g/l
Consumption As water vapour barrier As concrete sealer	5 m <sup>2</sup> /l 7 m <sup>2</sup> /l

(\*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

### Product description

Moisture Barrier 1 Coat is a two-part waterborne epoxy coating system designed to act as a single coat moisture and vapour barrier primarily over rigid cementitious substrates. Designed specifically for use with the Soudal range of timber flooring adhesives.

### Properties

- Environmentally friendly
- Water cleanup
- Convenient equal part mixing.
- Single coat application.
- Non-flammable.
- Negligible odour and toxicity.
- Excellent adhesion to brick, masonry, concrete, compressed fibreboard, stone and timber

### Applications

- In-situ concrete
- Brick, block, and stonework
- Fibre cement and AAC systems
- Precast and tilt up panels

### Packaging

Colour: grey

Packaging: 8 litre kit. Other sizes available on request

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

### Shelf life

At least 12 months in unopened packaging in a dry storage place at temperatures between +10 °C and +30 °C away from direct sunlight. Partly used containers must be sealed tight when not in use.

### Application method

**Substrates:** All surfaces to be treated must be structurally sound and all previous coatings, adhesives, efflorescence or laitance should be removed by chipping, abrasive blast cleaning, high pressure water washing, mechanical scrubbing or other suitable means. All surfaces must be cleaned free from dirt, grease, oil or other surface contaminants. Holes, non-structural cracks and other surface deformities should be repaired using a Third Party product in accordance with the technical data sheets.

Very porous or “boney” concrete may require additional coats of Moisture Barrier 1 Coat. The first coat acting as a primer, penetrating into the pores of the concrete. Ensure recoat

times are adhered to between applications (refer to precautions).

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*Mixing:* Mixing should be by means of a mechanical forced action mixer with a high shear stirrer. Avoid trapping air during mixing as this may cause later pin holing in the coating during application.

*Placing:*

- The coverage rate as specified must be achieved to ensure adequate performance.
- Apply by low pressure spray. Successive coats should be applied at right angles to the previous coat.
- It is recommended that as application progresses, the coating depth be tested at random points with a wet film gauge/comb.

*Clean Up:* Wash all equipment in water or water/detergent immediately on completion of application.

### Cool Substates and Cool Climates

Moisture Barrier 1 Coat curing rates will be dramatically reduced if substrate surface or ambient temperature is below +10°C. If possible warm the substrate surface area where Moisture Barrier 1 Coat is to be applied by air blower or use a blower after application.

Always provide adequate ventilation during the curing cycle.

### Fire

Moisture Barrier 1 Coat is non-flammable and as such does not pose a fire risk

### Remarks

- Moisture Barrier 1 Coat should never be diluted.
- Some individuals may experience a skin reaction to Moisture Barrier 1 Coat. Those individuals should wear personal protection equipment. Refer to our Safety Data Sheet for more information.
- Moisture Barrier 1 Coat cure rates will be dramatically reduced if relative humidity is above 85%.
- Moisture Barrier 1 Coat should never be diluted.
- Do not apply to steel or metal surfaces, as corrosion will occur.
- Do not add cementitious products to Moisture Barrier 1 Coat.
- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during curing cycle to enable adequate evaporation of the coating.
- Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.

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