

# Monoprufe DPM

Surface damp proof membrane

## FEATURES

- ✓ damp proof membrane
- ✓ polymer cement based
- ✓ liquid applied system
- ✓ one coat if being overlaid with bonded Ronafix or bonded Ronascreed screed, otherwise two coats
- ✓ will receive and restrain bonded screed
- ✓ water based; low odour

## SPECIFICATION CLAUSES

### 1. Damp Proof Membrane

The damp proof membrane shall be Monoprufe DPM by Ronacrete Ltd, telephone +44 (0) 1279 638700. All materials to be applied in accordance with manufacturers instructions.

## SUMMARY APPLICATION PROCEDURE

**Monoprufe DPM to be overlaid with bonded Ronacrete screed such as Ronafix, Ronascreed.**

1. prepare surface
2. mix and apply one coat of Monoprufe DPM
3. cure and protect
4. apply levelling / wearing screed of Ronafix or bonded Ronascreed
5. optionally apply epoxy floor coating (refer to RonaFloor HB100 or HB200)
6. traffic

**Monoprufe DPM to be overlaid with unmodified screed**

1. prepare surface
2. mix and apply two coats of Monoprufe DPM
3. apply ordinary screed

## Description

Monoprufe DPM is a liquid applied surface damp proof membrane designed to reduce the passage of water vapour and allow the adhesion of thin bonded screeds to suitable substrates.

Supplied as a liquid and a powder Monoprufe DPM is applied as one coat when covering with Ronafix or other Ronacrete polymer screed or two coats when covering with unbonded Ronascreed or other non-polymer screed. It has been formulated to allow early covering with thin bonded or semi-thick unbonded screeds or toppings.

Tests including Moisture Vapour Permeability in accordance with BS3177 have been carried out and show a reduction in vapour transmission to less than 4g/m<sup>2</sup>/day.

## Advantages

- water based membrane system
- reduces water and water vapour permeability
- designed to accept thin bonded screed
- compatible with most Ronacrete screed and topping systems
- easy to mix and apply
- quick drying one or two coat application
- non-hazardous, solvent free, low odour

The system is applied as follows:

1. prepare surface ideally to a trowelled or brush finish; clean to remove laitence, dust and friable material. Refer to BS8204 Part 3 : 1993 when covering with a bonded screed
2. damp with clean water; remove excess
3. mix Monoprufe DPM to form creamy slurry and apply to damp surface by brush, roller or airless spray
4. if covering with Ronafix polymer screed apply appropriate primer and lay screed or topping in accordance with standard Ronacrete specifications
5. if covering with Ronascreed or other non-polymer screed apply second coat of Monoprufe DPM as described in 3. above at 90° to the first coat and allow to dry for 1-24 hours then lay screed

## Site Attendance

When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

## Supply

Monoprufe DPM is supplied as a two component material in 10kg packs.

## Substrate Preparation

Since Monoprufe DPM can be covered with a bonded Ronafix or other Ronacrete modified screed or topping it is essential that the substrate is sound and stable and strong enough to restrain the screed or topping. The instructions given in the appropriate Ronacrete screed specification must therefore be followed.

When mechanically abrading surfaces vacuum blasting is preferable. A heavy surface profile should be avoided in order to minimise the risk of the Monoprufe DPM ponding or not covering high points.

When overlaying with an unbonded screed surface preparation requires the substrate to be clean, sound and free of contamination including oil and dirt.

If an unbonded screed is being laid on top of Monoprufe DPM install a separating layer between the Monoprufe DPM and screed to prevent partial adhesion.

## Damping

Following surface preparation and before applying Monoprufe DPM the surface must be damped with clean water, allowing water to soak in to the surface and absorb porosity. Excess standing and ponding water must be removed and the surface left damp.

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# Monoprufe DPM

## Application

Ensure the Monoprufe DPM is properly mixed and the powder evenly dispersed. Apply by soft broom, brush, roller or airless spray on to the damp surface at a coverage rate of 1.4m<sup>2</sup> per kg per coat. It is essential to ensure even coverage and to achieve a continuous pinhole free film. Do not overspread the material.

Apply one or two coats of Monoprufe DPM; (see 4. above) the consumption rate is 0.7kg per m<sup>2</sup> per coat. Allow the first coat to dry for not less than 1 hour and not more than 24 hours before applying the second coat or appropriate primer (at 20°C). The second coat or primer is applied at 90° to the first. Do not damp between coats. If covering with a bonded screed blind the second coat with sand to provide a key. The wet film must be protected to ensure it is not walked on or damaged.

## Applying Ronacrete bonded screed

Note that when applying a thin bonded screed (eg. Ronafix or Ronascreed) a primer coat of Ronafix : cement or other Ronacrete primer compatible with the screed or topping must be applied directly on to the dry Monoprufe DPM before the screed or topping is laid.

## Floor Coverings

In line with Codes of Practice subsequent floor coverings should have a vapour permeability of more than 4g/m<sup>2</sup>/day.

## Washing Tools and Equipment

Monoprufe DPM is water based. Tools and equipment should be washed with water immediately after use.

## Test Data

Results are from laboratory tests in ideal conditions. Site results will differ.

## Coverage and Estimating Guide

1kg of Monoprufe DPM is sufficient for applying 1 coat over an area of 1.4m<sup>2</sup>.

Apply one coat when overlaying with Ronafix, Ronascreed or other Ronacrete polymer bond coat and screed.

Apply two coats when overlaying with non-polymer screed.

## Water Vapour Permeability (BS3177)

|  |                                      |
|--|--------------------------------------|
| 1 coat Monoprufe DPM plus Ronafix : cement primer coat | <4g/m <sup>2</sup> /day after 7 days |
| 2 coats Monoprufe DPM                                  | <4g/m <sup>2</sup> /day after 7 days |

| area              | no. of coats | quantity of Monoprufe |
|-------------------|--------------|-----------------------|
| 150m <sup>2</sup> | 1            | 105kg                 |
| 150m <sup>2</sup> | 2            | 210kg                 |
| 600m <sup>2</sup> | 1            | 420kg                 |
| 600m <sup>2</sup> | 2            | 840kg                 |

RONL 018 Issue 9 26th April 2011

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