

## Monoprufe WP Elastic

Elastomeric surface damp proof membrane



### FEATURES

- below ground structures
- internal and external application
- suitable for use on concrete, brickwork, blocks
- highly elastic, elongation at break 180%
- excellent adhesion; pull off > 1.0N/mm<sup>2</sup>
- easy to use
- water based

### Description

Monoprufe WP Elastic is a high performance cold applied cementitious waterproofing membrane. Monoprufe WP Elastic is used in swimming pools, tanks and basements to contain or exclude water and can accommodate some structural movement within the substrate.

Supplied as a two component material, Monoprufe WP Elastic is a blend of polymers, cements, graded fillers and chemical binders. The two components are simply mixed at site to form a highly workable coating which is roller applied to the prepared substrate. It is to be covered with a screed or render; it is not capable of resisting wear or abrasion.

### Physical Properties

Substrate Adhesion	>1.0N/mm <sup>2</sup>
Tensile Strength	2.0N/mm <sup>2</sup>
Elongation at Break	180%
ISAT	0.0 ml/m <sup>2</sup> /sec
Vapour Permeability	1.3 gm/m <sup>2</sup> /day
Shore A Hardness	75
Pot Life	80 minutes
Coverage	0.7kg/m <sup>2</sup> /coat
Number of Coats	2 minimum
Intercoat Period	4—24 hours

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

### Instructions for Use

When Monoprufe WP Elastic is being covered with a bonded Ronafix [or other Ronacrete modified] screed or Ronafix render it is essential that the substrate is sound and stable and strong enough to restrain the screed or render. The instructions given in the appropriate Ronacrete screed or render specification

# Monoprufe WP Elastic

## Elastomeric surface damp proof membrane

### Instructions for Use (continued)

must therefore be followed. Typically the tensile strength of the substrate must exceed  $1.5\text{N/mm}^2$  - refer to BS8204 Part 3:10993 for test method.

Achieve a clean, laitance free substrate. When mechanically abrading surfaces, vacuum blasting is preferable. A heavy surface profile should be avoided in order to minimise the risk of the Monoprufe WP Elastic 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. Install a separating layer between the Monoprufe WP Elastic and screed to prevent partial adhesion.

#### Damping

Damp the prepared surface 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.

#### Mixing

Pour all of the liquid component into a clean dry mixing container and mix using a slow speed drill fitted with a paddle. Slowly add the powder component to the liquid and continue to mix. When all of the powder has been added, increase the mixing speed and continue to mix until contents are fully dispersed, to produce a lump free slurry.

#### Application

Apply by roller on to the damp surface at a coverage rate of  $0.7\text{kg per m}^2$  per coat on to a flat, non-porous surface. It is essential to ensure even coverage and to achieve a continuous pinhole free film. No allowance has been made in the quoted coverage rate for substrate texture. Do not overspread the material. When applying to the floor, do not walk on the wet film.

Apply the first coat at the rate of  $0.7\text{kg per m}^2$  minimum. The first coat should be allowed to dry for not less than 4 hours and not more than 24 hours before applying the second coat.

Apply the second coat at the rate of  $0.7\text{kg per m}^2$  minimum at  $90^\circ$  to the first coat. Do not damp between coats. If covering with a bonded screed, render, tiles or soft flooring a third coat may be required if there is to be a delay in covering the membrane of more than 48 hours. In this case a third coat should be applied, followed by a scatter of dry sharp sand into the wet surface at approximately  $0.25\text{kg per m}^2$ . This will provide a key to aid adhesion. When dry remove any loose sand from the surface. If this cannot be done, the second coat should be thoroughly abraded 24-48 hours before application of screed, render or floor finish and a fresh coat applied. Alternatively, conduct pull off tests to determine potential for adhesion. The required value is  $1.5\text{N/mm}^2$ .

When applying to the wall apply as described above. If the coverage rate cannot be achieved, apply sufficient coats to achieve the required overall coverage, with a sand scatter applied to the final coat if required.

At floor wall junctions, or at any other position where minor movement may occur,

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## Elastomeric surface damp proof membrane

### Instructions for Use (continued)

a glass fibre fleece should be introduced, approximately 150mm either side of the point of possible movement. The fleece should be embedded in a coat of Monoprufe WP Elastic and encapsulated with a further coat. Neither of these coats may be regarded as part of the waterproofing and at least two further coats must be applied.

### Precautions

- Avoid application in strong direct sunlight or drying winds.
- Observe material pot life. Do not re-work or add water.
- The wet film must be protected to ensure it is not walked on or damaged.
- The dry film must be protected from site traffic until it is overlaid. Screeding must not commence until the final layer has cured for at 4-24 hours.

### Coverage

It is important to note that coverage rates are based on flat, non-porous surfaces, make no allowance for wastage and are the minimum that should be allowed for. Additional material will be required on surfaces which are either uneven or porous.

### Packaging

Monoprufe WP Elastic is supplied as a two component material in 11.25kg packs.

### Coverage and Estimate Guide

0.7kg of Monoprufe WP Elastic is sufficient for applying 1 coat over an area of 1m<sup>2</sup>.

### Shelf Life and Storage

Shelf life 6 months. Store in a cool dry place.

### Health and Safety

Contains Cement. Protective clothing such as goggles, overalls and gloves is recommended to prevent any effect from prolonged skin contact, inhalation or ingestion. Refer to Health and Safety Data Sheet.

In the event of skin contact, wash with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

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## Elastomeric surface damp proof membrane

### 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.

The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ronacrete Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ronacrete Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.