

Monoprufe WP Elastic

Elastic polymer cement waterproof membrane



FEATURES

- suitable for above and below ground use
- Used for interior and exterior applications
- Adheres to concrete, mortars, brick and block
- highly elastic, elongation at break 180%
- excellent adhesion; pull off > 1.0N/mm²
- easy to use
- water based

Description

Monoprufe WP Elastic is a high performance cold applied polymer cement waterproofing membrane. Monoprufe WP Elastic is used in basements, planters and on balconies and terraces to exclude water. Monoprufe WP Elastic is sufficiently elastic to bridge minor dynamic cracks.

Monoprufe WP Elastic is a two component blend of polymers, cements, graded fillers and chemical binders. Monoprufe WP Elastic is mixed on site to produce a roller or slurry brush applied thin liquid membrane. Monoprufe WP Elastic must not be used as a wearing surface, it may be covered with screeds, renders, tiles, resilient flooring etc.

Physical Properties

Substrate Adhesion	>1.0N/mm ²
Tensile Strength	2.0N/mm ²
Elongation at Break	180%
ISAT	0.0 ml/m ² /sec
Vapour Permeability	1.3 gm/m ² /day
Shore A Hardness	75
Pot Life	80 minutes
Coverage	0.7kg/m ² /coat minimum ≥ 1mm typical
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 stable and strong enough to restrain the screed or render. The instructions given in the appropriate Ronacrete screed or render specification must therefore be

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Instructions for Use (continued)

followed. The pull-off strength of the substrate must exceed 1.5N/mm^2 - refer to BS8204 Part 3:1993 for test method.

A clean, lightly textured, laitance free substrate is required. Light shot, grit or water blasted surfaces are preferred. Heavily profiled surfaces should be avoided to prevent ponding and reduced thickness over high points, which may require application of further coats.

Before applying an unbonded screed, ensure that the surface of Monoprufe WP Elastic is clean and free from loose materials. A slip membrane must be laid before application of the screed.

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 spiral paddle (MR3 type). Slowly add the powder component to the liquid and continue to mix until contents are fully dispersed, typically 3 minutes.

Application

Application should be by roller or slurry brush at a minimum rate of 0.7kg/m^2 /coat, typical usage rate may be in excess of 1.0kg/m^2 /coat to achieve the required minimum.

A coved skirting of Ronafix Mix A or Ronafix Pre-packed Screed 6-50mm, bonded with the appropriate primer, should be applied when Monoprufe WP Elastic is required to coat the floor and wall.

At floor wall junctions, cracks and open bay joints, Ronacrete AR Glass Fibre Mesh should be applied to an embedment layer of Monoprufe WP Elastic approximately 150mm either side of the point of possible movement. The strands of Ronacrete AR Glass Fibre Mesh should be thoroughly wetted with the embedment layer and the operative must ensure that the reinforcement is free from creases.

Apply at least 2 waterproof coats to all surfaces to be treated at the minimum rate of 0.7kg/m^2 /coat. Each coat must be applied at 90 degrees to the previous coat; each coat must be sufficiently firm to prevent damage before another coat is applied, 4-24 hours depending on temperature and humidity.

When screed or render is to be applied to the coating, a further layer of Monoprufe WP Elastic should be applied to waterproof layers and scattered with 0.8-1.7mm (or similar grade) kiln-dried sand to provide a key for bonding of the mortar. When smoothing compounds and flooring adhesives are to be applied to the membrane within 48 hours of completion of the final waterproof layer, the embedment coat and sand are not required but when bonded floorings are to be laid at a later stage, a further layer of Monoprufe WP Elastic should be applied to

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Instructions for Use (continued)

waterproof layers and scattered with a grade of kiln-dried sand appropriate to the thickness of the material to be laid.

Protection

Avoid application in strong direct sunlight or drying winds. Monoprufe WP Elastic is not a wearing surface and must be kept clean and protected from site traffic until a screed or flooring is to be laid.

Coverage

Coverage is dependent upon substrate profile and texture. Heavily textured surfaces may require a greater average thickness per coat and more coats may be required to produce a waterproof membrane. The minimum thickness at any point is 0.7kg/m^2 average thickness may need to be $\geq 1\text{mm}$ to achieve this.

Packaging

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

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.

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.