

MC-Proof PU 1000 (Previously known as Dictaflex 600)

Liquid Applied Elastic Waterproofing Membrane

Product Properties

- Single component, ready-to-use
- Water-based bitumen-modified polyurethane
- Highly elastic and flexible to accommodate thermal movement of concrete structures
- Seamless and unique property of adapting to contours forming a durable elastomeric waterproof membrane
- Excellent crack bridging properties
- Impermeable to water
- Can be used on horizontal and vertical surfaces
- Good resistance to soil acids and salt solutions

Areas of Application

- R.C flat roofs and roof gutters
- Roof gardens, landscape areas and planter boxes
- Exposed driveways and suspended slabs
- Balconies and terraces
- Retaining walls
- Lift pit walls

Approval / Standard

- SIRIM certified -Test method: BS 1881-122:1983 -Testing concrete. Method for Determination of Water Absorption.

Application

Substrate Preparation

The surface must be structurally sound and free from cement laitance, loose particles, dust, oil, grease and any other contaminants or old coatings which may affect the adhesion. Grind smooth all high spots and sharp protrusions. Surface defects such as honeycombs and cracks must be repaired and re-profiles to prepare a sound surface for bonding.

All corners and right-angle bends must have a mortar angle fillet installed.

Priming

For absorbent surfaces such as porous concrete, dilute MC-Proof PU 1000 with 10% of clean water and prime the surface.

Application Methods

MC-Proof PU 1000 can be applied by brush, roller or spraying equipment. Once the priming coat has dried, apply a neat coat of MC-Proof PU 1000 at the rate of 0.7 kg/m². Minimum 2 coats are required.

For large areas, a layer of fibremesh reinforcement is embedded in between the 1st and 2nd coat to increase tensile strength and to control film thickness.

Protection and Curing

The freshly applied membrane must be protected from rain and be allowed to cure for a minimum of 24 hours at 25 °C.

Cleaning

Clean all equipment, tools and hands with soap and water immediately after use. Hardened materials can only be mechanically removed.

Limitations

Do not mix MC-Proof PU 1000 with other materials except with clean water for priming coat.

Not suitable for permanent water immersion.

As MC-Proof PU 1000 is non-UV-resistant, for exposed areas must be protected with protective screed. For basement walls, protect with 25 mm Polystyrene board against mechanical damage during backfilling.

Technical Data for MC-Proof PU 1000

| Characteristics | Unit | Value | Comments |
|------------------------|-------------------|---------|------------------------|
| Specific Gravity | | ~1.35 | at 25 °C |
| Solid Content | % | ~70 | by volume |
| Elongation at Break | % | 600 | ASTM D412 |
| Curing Time | hours | 24 | at 25°C |
| Coverage | kg/m ² | 0.2 | priming coat |
| | | 0.7 | neat coat |
| Application Conditions | °C | 10 - 50 | substrate temperature |
| | % | <85 | relative humidity (RH) |
| | °C | 3 | above dew point |

Product Characteristics for MC-Proof PU 1000

| | |
|----------|--|
| Colour | Black |
| Delivery | 20 kg container |
| Storage | Can be stored in cool and dry conditions for 9 months in original unopened packs. |
| Disposal | In the interest of the environment, please empty all containers completely & in accordance with local regulations. |

Safety Advice

- 1-Fire : Non-flammable
- 2-Skin : Wear gloves. If contact occurs, wash with hand cleaner followed by soap and water.
- 3-Eyes : Wear goggles. If eyes become contaminated, irrigate with copious amounts of water and seek medical assistance immediately.
- 4-Ensure adequate ventilation during use.

Note: Bespoke vendor supplies. The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to observe during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 02/22. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.