

## MARISEAL® DETAIL

### Liquid-applied polyurethane waterproofing membrane For complex roof details. Fiber-reinforced

#### Product description

MARISEAL® DETAIL is a liquid-applied, thixotropic, permanent elastic, fiber-reinforced, cold applied and cold curing, one component polyurethane membrane used for long-lasting waterproofing.

Cures by reaction with ground and air moisture.

#### Uses

The MARISEAL® DETAIL is mainly used to create waterproof seals on difficult and complex roofing details such as:

- Wall-floor connections
- Flashings and 90° angles
- Lightdomes,
- Rooflights,
- Chimneys,
- Pipes,
- Gutters, etc.

#### Advantages

- Simple application (brush or roller).
- It forms seamless membrane without joints or leak possibilities.
- Resistant to water and rain.
- Maintains its mechanical properties over a temperature span of -30°C to +80°C.
- Resistant to frost.
- Provides water vapor permeability.
- Full surface adherence without any additional anchoring.
- Even if the membrane gets damaged, it can be easily repaired locally within minutes.
- Low cost

#### Consumption

1, 5 – 3, 5 kg/m<sup>2</sup> depending on application.

#### Surfaces

The MARISEAL® DETAIL is mainly used to create waterproof seals between different construction materials as :

- Bitumen felts
- PVC membranes
- Concrete / Mortar / Cement screed
- Various Metals
- Wood, etc

#### Colors

The MARISEAL® DETAIL is supplied in Grey and Black

#### Technical data

| PROPERTY                     | RESULTS   | TEST METHOD              |
|------------------------------|---|--------------------------|
| Composition                  | Polyurethane high-solids pre-polymer  |                          |
| Elongation at Break          | > 250 %   | ASTM D 412               |
| Tensile Strength             | > 2 N/mm <sup>2</sup>   | ASTM D 412               |
| Water Vapor Permeability     | > 20 gr/m <sup>2</sup> per 24 hours   | ISO 9932:91              |
| Resistance to Water Pressure | No Leak (1m water column, 24h)  | DIN EN 1928              |
| Adhesion to concrete         | > 2,0 N/mm <sup>2</sup> (concrete failure)  | ASTM D 903               |
| Hardness (Shore A Scale)     | 65-70   | ASTM D 2240              |
| Application Temperature      | 5°C to 35°C   | Conditions: 20°C, 50% RH |
| Rain Stability Time          | 3-4 hours   |                          |
| Light Pedestrian Traffic     | 12-18 hours   |                          |
| Final Curing time            | 7 days  |                          |
| Chemical Properties          | Good resistance against acidic and alcalic solutions (5%), detergents, seawater and oils. |                          |

## Application

### Surface Preparation / Priming

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. Do not wash surface with water!

Please refer to MASTIC LIQUIDDETAIL **surface preparation / priming** table.

### Waterproofing membrane

Stir MARISEAL® DETAIL slowly and well with wooden staff before using. Do not use a mechanical drill.

Apply the MARISEAL® DETAIL onto the prepared and/or primed surface by roller or brush, until all surface is covered.

If necessary apply a second layer.

For detailed application instructions, contact our R+D department.

**ATTENTION:** Do not apply the MARISEAL® DETAIL when the ambient temperature is below +5°C during the application and 4 hours afterwards, on surfaces with Temperature below +5°C, on frozen surfaces, during rain or mist, on wet MARISEAL® DETAIL Primer and on surfaces with ascending humidity. Low temperatures retard cure while high temperature speed up curing.

**WARNING:** The MARISEAL® DETAIL is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.

### Packaging

MARISEAL® DETAIL is supplied in 6 kg pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

### Safety measures

MARISEAL® DETAIL contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet.

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.