

COSMO DETAIL

One-component , polyurethane membrane used for roof-details waterproofing

DESCRIPTION

COSMO DETAIL is a thixotropic and fiber-reinforced , one component polyurethane liquid membrane used for waterproofing and protection of roof detail structures.

Due to its unique formulation , it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. This product is ideal for use during the winter months or in climates with relatively low humidity.

Apply with brush or roller. Minimum consumption: $\pm 1.8 \text{ kg/m}^2$.

COMPLIANCE

The product complies with the EU guideline for this type of materials, EOTA Organization of Technical Approval).

RECOMMENDED FOR

Waterproofing and protection of:

- Flashings
- Wall-floor connections
- Chimneys
- Pipes
- Photovoltaic systems
- Air-condition units
- Gutters

PACKAGING

5 kg.

FEATURES & BENEFITS

- No reinforcement necessary in flashing points
 - Fast curing! Skin formation time of 2 hours.
 - Bubble and defect free membrane.
 - Excellent weather and UV resistance
 - Excellent thermal resistance, the product never turns soft.
- Recommended service temperature 80 °C, max shock temperature 200 °C.
- Resistance in the cold: The film remains elastic even down to -40 °C.
 - Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
 - Good chemical resistance.

APPLICATION PREREQUISITES

Can be successfully applied on: Concrete , fibrous cement , mosaic , cement roof tiles , old (but well adhered) acrylic and asphalt

coats , wood. For information about other substrates , please contact our tech department.

Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15 \text{ Mpa}$.
- Humidity: $W < 10\%$.
- Temperature: 5-35 °C.
- Relative humidity: $< 85\%$.

APPLICATION PROCEDURE

Clean the surface using a high pressure washer, if possible. Remove oil , grease and wax contaminants. Cement laitance , loose particles, mould release agents , cured membranes must be removed. Fill surface irregularities with the necessary product.

CONSUMPTION

Minimum total consumption: $\pm 1,8 \text{ kg/m}^2$.

CLEANING

Clean tools and equipment first with paper towels and then using pure xylene. Rollers will not be re-usable.

SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been opened, use as soon as possible.

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TECHNICAL SPECIFICATIONS

In liquid form (before application):

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|--|--------------------|--|---------------|
| Viscosity (BROOKFIELD) | cP | ASTM D2196-86, @ 25 °C | 5000-7000 |
| Specific weight | gr/cm ³ | ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C | 1.4-1.5 |
| Flash point | °C | ASTM D93, closed cup | 42 |
| Tack free time, @ 77 °F (25 °C) & 55% RH | hours | - | 2-3 |
| Recoat time | hours | - | 6-48 |

The cured membrane:

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|--|--|-----------------------------------|-------------------------|
| Service temperature | °C | - | -40 to 80 |
| Max. temperature short time (shock) | °C | - | 200 |
| Hardness | Shore A | ASTM D2240 / DIN 53505 / ISO R868 | 70 |
| Tensile strength at break @ 23 °C | Kg/cm ² (N/mm ²) | ASTM D412 / EN-ISO-527-3 | 80 (8,5) |
| Percent elongation @ 23 °C | % | ASTM D412 / EN-ISO-527-3 | > 200 |
| QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C) | - | ASTM G53 | passed (2,000 hours) |

Safety Informations

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

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