

## COSMOFIN LLV

MONOMER-PLASTICISED, HIGH UV STABILISED (LL) PVC WATERPROOFING MEMBRANE WITH INTEGRATED GLASS FLEECE REINFORCING AND A POLYESTER FLEECE BACKING, BASED ON THE LONG TERM PROVEN RECIPE OF COSMOFIN. COSMOFIN MEMBRANES ARE PRODUCED BY EXTRUSION METHOD.

### TYPES AND APPLICATION AREAS

#### Cosmofin LLV

With integrated glass fleece reinforcing and a polyester fleece backing.

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| Membrane width | 1,650 mm |
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|-------------------|--------|
| Nominal thickness | 1.5 mm |
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|        |            |
|--------|------------|
| Colour | Light grey |
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| New buildings and reburbishments | <ul style="list-style-type: none"><li>• Strip bonded</li><li>• Loose-laid under ballast</li></ul> |
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#### Characteristics of Cosmofin LLV

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| <ul style="list-style-type: none"><li>• Glass fleece reinforcement</li><li>• High tensile strength</li><li>• Polyester fleece backing</li><li>• With LongLife (LL) equipment</li><li>• Suited for hot air and solvent welding</li><li>• Mouldable when warm (Cosmofin F)</li></ul> | <ul style="list-style-type: none"><li>• Cold resistant</li><li>• Recyclable</li><li>• Free of cadmium and lead stabilizers</li><li>• Resistant to plant roots according to FLL testing and EN 13948 (Type FG)</li><li>• AS 4654.1-2012 (NATA Certified)</li></ul> |
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#### System parts and accessories

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| <ul style="list-style-type: none"><li>• Homogeneous material for detail forming</li><li>• Internal and external corners</li><li>• Composite metal profiles</li></ul> | <ul style="list-style-type: none"><li>• Surface adhesive (Teroson EF TK 400)</li><li>• Wittec Walkway, membrane for maintenance paths</li><li>• Stainless steel drainage elements</li></ul> |
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## TECHNICAL DATA

### Product Information according to

EN 13967

EN 13956

Certified conformity to  
AS 4654.1-2012

- For basement tanking and below ground installation
- Exposed application (mechanically fixed), under ballast (gravel, Green roof ....)
- Waterproofing membranes for external above-ground use

| Characteristic                                        | Testing standard     | Unit              | Result*<br>1.5mm |
|-------------------------------------------------------|----------------------|-------------------|------------------|
| Visible defects                                       | EN 1850-2            | -                 | passed           |
| Length                                                | EN 1848-2            | m                 | 15               |
| Width                                                 | EN 1848-2            | m                 | 1.65             |
| Straightness                                          | EN 1848-2            | mm                | ≤ 50             |
| Flatness                                              | EN 1848-2            | mm                | ≤ 10             |
| Mass per unit area                                    | EN 1849-2            | kg/m <sup>2</sup> | 2.2              |
| Effective thickness                                   | EN 1849-2            | mm                | 1.5              |
| Watertightness                                        | EN 1928<br>Method B  | kPa               | passed           |
| Reaction to fire                                      | EN 13501-1           | -                 | Class E          |
| Joint peel resistance                                 | EN 12316-2           | N/50 mm           | ≥ 185            |
| Joint shear resistance                                | EN 12317-2           | N/50 mm           | ≥ 600            |
| Tensile strength longitudinal and transversal         | EN 12311-2           | N/50 mm           | ≥ 400            |
| Elongation longitudinal and transversal               | EN 12311-2           | %                 | ≥ 30             |
| Resistance to impact<br>Method A<br>Method B          | EN 12691<br>EN 12691 | mm<br>mm          | ≥ 500<br>≥ 500   |
| Durability of watertightness<br>against aging         | EN 1296<br>EN 1928   | -                 | passed           |
| Durability of watertightness<br>against chemicals     | EN 1847<br>EN 1928   | -                 | passed           |
| Nail tear resistance                                  | EN 12310-1           | N                 | ≥ 400            |
| Tear resistance longitudinal<br>and transversal       | EN 12310-2           | N                 | ≥ 250            |
| Resistance to root penetration                        | EN 13948             | -                 | passed           |
| Dimensional stability longitudinal<br>and transversal | EN 1107-2            | %                 | ≤ 0.5            |
| Foldability at low temperature                        | EN 495-5             | °C                | ≤ -25            |
| UV exposure                                           | EN 1297              | visual            | passed           |
| Hail resistance<br>Hard/soft ground                   | EN 13583             | m/s               | ≥ 17             |
| Water vapour permeability                             | EN 1931              | μ                 | 25,000 ± 5,000   |

\* Values in new condition

Date: 03/2021. This technical data sheet was produced according to the latest technical knowledge and standards. Technical changes due to further developments are possible.



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