



## LOGICBASE P-SL

Non-reinforced TPO/FPA synthetic membrane for underground waterproofing.

### DESCRIPTION:

Synthetic waterproofing membrane produced by co-extruding a uniform highly flexible elastomeric polyolefin alloy.

The membrane features contrasting colours on its upper and lower faces, providing a signal layer so that any damage occurring during or after installation will be immediately apparent. It is not UV resistant. LOGICBASE P-SL membranes comply with CE marking requirements, if applicable.

**Notes:** <sup>(1)</sup> The membrane is equipped with specific accessories, to be requested explicitly.

### APPLICATION:

LOGICBASE TPO/FPA membranes are welded by hot air welding equipment, such as manual or automatic hot air welding machines with temperature control. The installation should be carried out in accordance with the [Manual for installation of single ply polymer membranes for underground waterproofing](#).

### FIELDS OF APPLICATION:

Specific use:

- LOGICBASE P-SL membrane is designed for waterproofing of underground structures: foundations, retaining walls, natural and artificial tunnels.

### TECHNICAL FEATURES:

| Properties                                     | Test Method        | Performance <sup>(2)</sup>                      |           |           |
|--|--------------------|---|-----------|-----------|
| Standard thickness, mm                         | EN 1849-2          | 1.5   | 1.8       | 2.0       |
| Density, kg/m <sup>2</sup>                     | EN 1849-2          | 1.35  | 1.62      | 1.80      |
| Tensile strength L/T, N/50 mm                  | 12311-2/ISO 527    | 15 / 15   |           |           |
| Elongation at break L/T, %                     | 12311-2/ISO 527    | 600 / 600                                       |           |           |
| Dimensional stability, %                       | EN 1107-2          | ≤ 0.5   |           |           |
| Cold flexibility, °C                           | EN 495/5           | ≤ -40 <sup>(3)</sup>                            |           |           |
| Tear resistance L/T, N                         | EN 12310/1         | 450 / 400                                       | 550 / 500 | 650 / 600 |
| Resistance to static loading, kg               | EN 12730/B         | ≥ 25  |           |           |
| Water tightness (60 kPa)                       | EN 1928            | Absolute  |           |           |
| Joint strength: Tensile strength, N/cm         | EN 12317-2         | Compliant<br>(specimen fails outside bond area) |           |           |
| Joint strength: Peeling, N/cm                  | EN 12316-2         | ≥ 58  |           |           |
| Durability: Waterproofing after thermal ageing | EN 1926<br>EN 1928 | Passes the test at 60 kPa                       |           |           |
| Resistance to algae and microorganisms         | ISO 846 Level 2    | Compliant                                       |           |           |
| Root resistance                                | EN 13948           | Passes the test                                 |           |           |

<sup>(2)</sup> Tolerances as per EN 13967.

<sup>(3)</sup> Not tested at lower temperatures.





| PRODUCTION STANDARDS |    |               |      |      |
|----------------------|----|---------------|------|------|
| Thickness (*)        | mm | 1.5           | 1.8  | 2.0  |
| Width                | m  | 2.10          | 2.10 | 2.10 |
| Length (*)           | m  | 25            | 20   | 20   |
| Color (*)            |    | Beige / Black |      |      |

(\*) Different thicknesses, lengths and colors are available on demand and for minimum quantities.