

**EUROFLEX V ST****Description**

Flexible synthetic membrane in plasticized vinyl chloride (PVC-P), obtained through a co-extrusion process. Suitable for waterproofing of tunnels and underground structures. Made with different colours on the two sides which allows you to identify any damage to the membrane during installation. High resistance to the attack of micro-organisms in soil, mechanical resistance. Resistance to low temperatures.

The upper side is structured for the implementation of partitioned waterproofing systems which can be tested with vacuum and/or injectable systems.

**System certifications**

QMS certification according to ISO 9001:2008.

**Product certifications**

Regulation CPR 305/2011/EU.

Certificate No. 1370-CPR-1210, harmonised standard EN13491.

Certificate No. 1370-CPR-0101, harmonised standard EN13967.

**Fields of application****Specific use**

The EUROFLEX V ST membrane is suitable for the realisation of synthetic waterproofing systems for underground structures:

- foundations;
- retaining walls;
- natural and artificial tunnels.

Suitable for IMPER FAIL SAFE and IMPER VACUUM waterproofing systems.

**Application**

The EUROFLEX V ST membranes are laid dry totally or partially independent by welding on PVC fastening disks. The overlaps between the sheets are welded with automatic or manual hot melting.

**Note:** The installation must be carried out by qualified installers and approved by IMPER ITALIA.  
Any accessories and finishing elements must be compatible and in any case manufactured or approved by IMPER ITALIA.

### TECHNICAL FEATURES

| Features                             | EN Standards         | U.M.                | Tolerance   | Values                     |
|--------------------------------------|----------------------|---------------------|-------------|----------------------------|
| Thickness                            | EN 1849-2            | mm                  | (-5/+10%)   | 2,0                        |
| Appearance of upper surface          |                      |                     |             | Structured                 |
| Mass per unit area                   | EN 1849-2            | kg/m <sup>2</sup>   | (-5/+10%)   | 2,66                       |
| Cold flexibility                     | EN 495-5             | °C                  | ≤           | -25                        |
| Tensile strength                     | EN 12311-2           | N/mm <sup>2</sup>   | ± 2         | 17                         |
| Elongation at break                  | EN 12311-2           | %                   | ± 10        | 300                        |
| Water impermeability (24 h at 1 MPa) | EN 1928              | -                   | -           | No leaks                   |
| Resistance to impact                 | EN 12691             | mm                  | ≥           | 750                        |
| Resistance to static loading         | EN 12730<br>EN 12236 | kg<br>kN            | ≥<br>± 0,25 | 20<br>3                    |
| Microbiological resistance           | EN 12225             |                     | -           | Compliant                  |
| Resistance to roots                  | UNI CEN/TS<br>14416  | UNI CEN/TS<br>14416 | -           | No penetration             |
| Tear resistance                      | EN 12310/2           | N/mm                | ≥           | 100                        |
| Resistance of joints                 | EN 12317/2           | -                   | -           | break outside of the joint |
| Resistance to oxidation              | EN 14575             | -                   | -           | pass the test              |
| Thermal ageing                       | EN 1296              | -                   | -           | pass the test              |
| Reaction to fire                     | EN 13501-1           | Euroclass           | -           | E (*)                      |

(\*) Internal report

### PRODUCTION STANDARDS

|                |    |                    |
|----------------|----|--------------------|
| Thickness (**) | mm | 2,0                |
| Width          | m  | 2,10               |
| Length (**)    | m  | 20                 |
| Colour         |    | Light grey / Black |

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

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Considerando le diverse situazioni d'impiego dei prodotti e l'intervento di fattori da noi non dipendenti (supporti, condizioni di esercizio, in osservanza delle prescrizioni, ecc.), non è possibile alla IMPER ITALIA srl assumere responsabilità in merito ai risultati ottenuti. Il progresso unito alla costante ricerca dei massimi livelli prestazionali possono apportare - nel tempo - modificazioni alle informazioni contenute in questo stampato, senza che la IMPER ITALIA srl debba darne preavviso a tutti gli interessati.



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