

Product

# STARFLEX MONO TIX

cod. 6847 M100



## ONE COMPONENT THIXOTROPIC MOISTURE CURING LIQUID POLYURETHANE MEMBRANE

Features

- Easy to apply by means of brush, roller, or airless spray.
- Suitable for vertical applications.
- High adhesion.
- High abrasion resistance.
- High elasticity and high tensile strength and resistance.
- Crack-bridging.
- Resistant to immersion into water.
- Water vapor permeable.
- Ideal for outdoor application. Can be over coated to improve U.V. protection.
- Substrate application temperature range: from + 5 ° C to + 35 ° C (R.H. < 85%).
- Operating temperatures from -30°C to +80°C in air, (+200°C for short time).

Application fields

Waterproofing systems with or without reinforcement for:

- Roofs, terraces and balconies.
- Bridge decks, overpasses and podiums.
- Industrial roofing.
- Renewing old membranes.

Application

### PRODUCT PREPARATION

One-component product ready to use after mixing carefully.

### SUBSTRATE PREPARATION

Substrates to be treated must be sound, clean and free from contaminations and debris.

STARFLEX MONO TIX adheres directly on concrete. On certain substrates for better adhesion and to avoid pin holes, use PRIMER 0230. For very porous substrates use PRIMER 0260 eventually adding a light scatter of quartz. Very humid substrates can be treated with specific DPM primers such as DUROGLASS FU BIANCO TIX.

If the substrate is damp or subject to back pressure, DUROGLASS FU BIANCO TIX or DUROGLASS FU RAPID must be applied in one or two coats, according to their technical data sheet.

For the repair of existing waterproofing or on old roofing felt, 100 g/m<sup>2</sup> of PRIMER 0230 must be previously applied.

As an alternative primer, STARCEMENT 5/A can be used.

**PRODUCT APPLICATION**

STARFLEX MONO TIX can be applied by roller or brush or airless spray (pressure 250-300 bar and nozzle 0,02"-0,03").

Roller application is necessary for reinforced systems.

**Non reinforced system:** apply two coats of product, with a consumption of 1 - 1,2 Kg/m<sup>2</sup> for layer. (over-application time from 6 to 48 hours maximum)

On vertical substrate the maximum amount of product which can be applied without reinforcement is 2,0 Kg/m<sup>2</sup> per layer.

In case of localized repairs, apply a layer of STARFLEX MONO TIX with a consumption of 1,5 kg/m<sup>2</sup>. Local patch work can be done with self-adhesive membranes or other compatible systems.

**Reinforced system:**

1. Apply a first coat of STARTEX MONO TIX with a consumption of 1,5 Kg/m<sup>2</sup> and embed on the fresh layer the reinforcement polyester fleece (60 g/m<sup>2</sup>). On the fresh (wet on wet) apply a second coat of 1-1,5 Kg/m<sup>2</sup>. The second coat can be applied also next day as soon as curing allows the system to be walked over.
2. Alternatively, the reinforcement material can be changed with a glass matt STARTEX 225 GM


After minimum 24 hours and not later than 48 hours, STARFLEX MONO TOP a protective colored UV resistant top coat can be applied on the waterproofing layer: with a consumption of 150-400 g/ m<sup>2</sup>.

Clean the tools with DILUENTE 15 after every use.

Technical Data

|  |                                |
|--|--------------------------------|
| <b>Color</b>                                 | Grey                           |
| <b>Specific weight<br/>UNI EN ISO 2811-1</b> | 1,46 ± 0,03 g/ml               |
| <b>Viscosity at 20°C<br/>UNI EN ISO 2555</b> | 25.000 ± 5.000 mPa.s           |
| <b>Solid content<br/>EN ISO 3251</b>         | 83±1% by volume, 87% by weight |

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|---|--|
| <b>Theoretical consumption</b>  | 2.000 -2500 g/m <sup>2</sup>   |
| <b>Theoretical Thickness</b>  | 1000-1250 µm   |
| <b>Hardening at 22°C,<br/>50% R.H.</b>                                      | <ul style="list-style-type: none"> <li>- dry to the touch                      6-8 hours</li> <li>- insensitive to rain                    6 hours</li> <li>- over-application                      24 hours</li> <li>- completely cured                      10 days</li> </ul> |
| <b>Permeability to carbon dioxide<br/>EN 1062-6</b>                         | Sd > 50 m  |
| <b>Permeability to water vapour<br/>EN ISO 7783-2</b>                       | Sd < 5 m   |
| <b>Capillary absorption and<br/>permeability to water<br/>EN ISO 1062-3</b> | < 0,1 kg/m <sup>2</sup> · h <sup>0.5</sup>   |
| <b>Adhesion to concrete (traction)<br/>EN 1542</b>                          | > 1,5 MPa  |
| <b>Crack bridging ability<br/>EN 1062-7</b>                                 | A method - static: A5 (23)<br>B method - dinamic: B4.2 (23)  |
| <b>Wear resistance<br/>EN ISO 5470-1</b>                                    | Grinder H22- 1000 g,<br>at 1000 rpm < 350 mg   |
| <b>Shock resistance<br/>EN ISO 6272</b>                                     | 4Nm  |
| <b>Adhesion to wet concrete<br/>EN 13578</b>                                | No swelling, no cracks, no spalling  |
| <b>Tensile strength<br/>UNI EN 12311-2</b>                                  | > 6 M Pa   |
| <b>Elongation at failure<br/>UNI EN 12311-2</b>                             | > 600 %  |
| <b>Hardness shore A<br/>EN ISO 868</b>                                      | 70   |
| <b>Storage</b>  | 12 months from date of production<br>if stored properly in original,<br>unopened sealed pack- aging, in a<br>dry place at temperatures be-<br>tween +5°C and +35°C.  |

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|---|--|-------------------|
|   |  |                   |
| 1305  |  |                   |
| MPM Srl - Via Adda, 15- 20090 Opera (MI)  |  |                   |
| 12  |  |                   |
| 1305-CPR-1222   |  |                   |
| EN 1504-2   | DoP 029  | Product type 6828 |
| <b>Protection against ingress 1.3 (C) , Moisture control 2.2(C); Physical resistance 5 1.(C); Increasing resistivity 8.2 (C).</b> |  |                   |
| CO <sub>2</sub> permeability  | SD > 50 m  |                   |
| Water vapour permeability   | Class I  |                   |
| Liquid water permeability   | w < 0,1 kg/m <sup>2</sup> x h <sup>0.5</sup>               |                   |
| Bond strength by pull-off   | > 2,0 N/mm <sup>2</sup>                                    |                   |
| Crack bridging  | A5 (23°C)<br>> B4.1 (23°C)                                 |                   |
| Impact resistance   | Class I  |                   |
| Abrasion resistance   | < 3000 mg  |                   |
| Hazardous substances  | The hardened product does not release hazardous substances |                   |
| Reaction to fire  | F <sub>FL</sub>  |                   |
| Exposition to artificial atmospheric agents   | No blistering, no cracking, no flaking                     |                   |

The data and prescriptions contained in this schedule, based on the best practical and laboratory experiences, are to be considered in any case indicative. Given the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical direction of application, etc.) those intending to use the product are held to establish whether it is suitable or not for the intended use. Our guarantee extends only to the quality and consistency of the finished product with the data given above, and only for technical schedules bearing the stamp and countersignature of the personnel delegated by our offices. The customer is further held to verify that these values are valid for the product batch concerning him and have not be updated and/or substituted by subsequent issues and/or new formulations. The data contained may vary at any moment without any obligation on the part of MPM to give prior notice.

