



PU TARFREE MIO

ZM-RE-PRO-04-A (01/08/06)

PU Tarfree MIO is a one-pack moisture curing polyurethane paint.

Its advantages:

- excellent water and corrosion resistance (thanks to the MIO particles).
- high chemical resistance.

These properties make PU Tarfree MIO the ideal product to replace normal coal tar products.

PU Tarfree MIO is especially recommended for immersion circumstances (seawater).

Physical data and technical information

- **Wet product**

Components	- micaceous iron oxides - magnesium silicates - iron oxide
Binder	moisture curing aromatic polyisocyanate prepolymers.
Density	1,55 ($\pm 0,05$ Kg/dm ³) at 20 °C
Solid content	- 82% by weight ($\pm 2\%$) - 66% by volume ($\pm 2\%$)
Viscosity	110 KU (± 5 KU) at 20 °C
VOC	295 g/L (= 190 g/Kg)

- **Dry film**

Colour	Black (standard), Light Grey
Gloss	Mat

- **Packing**

1 L	available
4 L	available
20 L	available

- **Conservation**

Storage	2 years in the original, unopened package stored in a dry environment at temperatures between -20°C and $+40^{\circ}\text{C}$.
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Application data

- **Surface preparation**

When the waiting time between the successive coats is abnormally prolonged or in extremely polluted areas, the primed surface can become contaminated. All contaminations that hamper the adhesion of the paint should be removed by appropriate means. Surfaces contaminated with oil and grease should be washed down with solvent, alkaline solutions or emulsifier. Salt deposits or other water-soluble contaminations should be removed with water and brush, water under high pressure or steam. Possible white rust on zinc dust primers should be removed with water and rigid nylon brush.

- **Coverage and consumption**

Theoretical coverage	- for 80 µm DFT: 7,5 m ² /L - for 100 µm DFT: 6,0 m ² /L - for 150 µm DFT: 4,0 m ² /L
Practical coverage	depends upon the roughness profile of the substrate and the application method

- **Environmental conditions during application**

Ambient temperature	- minimum 0 °C - maximum 35 °C
Relative humidity	- minimum 30% - maximum 98%
Surface temperature	- minimum 3 °C above the dew point

- **Drying process and overcoating**

Drying time	for 80 µm DFT at relative humidity of 75%: - 10 °C: dustdry: 2,5 hours tackfree: 4 hours dry: 8 hours - 20 °C: dustdry: 1 hours tackfree: 2,5 hours dry: 6 hours - 30 °C: dustdry: 40 minutes tackfree: 1,5 hours dry: 4 hours
Overcoating	for 80 µm DFT at relative humidity of 75%: 10 °C: minimum: 24 hours maximum: 3 months 20 °C: minimum: 6 hours maximum: 1 month 30 °C: minimum: 4 hours maximum: 1 week Remark: At longer intervals a good cleaning is necessary to avoid intermediate coat contamination which could disturb the adherence of the next coat.



Instructions for use

- **Application by brush and roller**

Dilution	5 to 10% with Zingasolv
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- **Application by conventional spray-gun**

Dilution	10 to 15% with Zingasolv (or Thinner 41)
Pressure at the nozzle	3 to 5 bar
Nozzle opening	1,2 to 1,5 mm

- **Application by airless spraying**

Dilution	5 to 15% with Zingasolv (or Thinner 41)
Pressure at the nozzle	100 to 300 bar
Nozzle opening	0,017 to 0,024 inch

- **Application on ZINGA**

Mist / Tie coat	20-30 µm DFT, diluted 10-15% (by weight)
Full coat	2 hours after touch dry, DFT no more than 70-80 µm per layer

- **Remarks**

Recommended system	According to ISO12944 certification in immersion in salt or brackish water (Im2) or in the ground (Im3) with high classification (Life expectancy > 15 years): ZINGA 1 x 60-80 µm DFT PU Tarfree MIO 2 x 100 µm DFT
Stripe coat	It is always recommended to treat corners, sharp edges, bolts and nuts before applying a uniform coat.
Cleaning	With Zingasolv or Thinner 41
Underwater structures	Drying time is 7 days. Please contact a Zingametall representative.

For more specific and detailed recommendations concerning the application of PU Tarfree MIO, please contact the Zingametall representative. For detailed information about the health and safety hazards and precautions for use, refer to the PU Tarfree MIO **safety data sheet**.

Waiver*

* The information on this sheet is merely indicative and is given to the best of our knowledge based on practical experience and testing. The conditions or methods of handling, storage, use or disposal of the product cannot be controlled by us and are therefore outside our responsibility. For these and other reasons we retain no liability in case of loss, damage or costs that are caused by or that are linked in any way to the handling, storage, use or disposal of the product. Any claim concerning deficiencies must be made within 3 months upon reception of the goods quoting the relevant batch number. We retain the right to change the formula if properties of the raw material are changed. This data sheet replaces all former specimens.