



ALUFER N

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

Alufer N is a moisture curing one pack polyurethane. Micaceous iron oxides create the special lamellar structure which create a very tight paint film

→ excellent water and corrosion resistance.

Alufer N can be applied as an intermediate and/or topcoat on Zinga.

Alufer N can be used for immersion in water, sea water and several chemicals.

Physical data and technical information

- **Wet product**

Components	- micaceous iron oxides - aluminium silicates - magnesium silicates
Binder	moisture curing aromatic polyisocyanate prepolymers.
Density	1,52 Kg/dm ³ (± 0,05 Kg/dm ³) at 20 °C
Solid content	- 79% by weight (± 2%) - 66% by volume (± 2%)
Viscosity	105 KU (± 5 KU) at 20 °C
VOC	300 g/L (= 198 g/Kg)

- **Dry film**

Colour	Grey
Gloss	Mat

- **Packing**

1 L	available (per box of 6 L)
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 °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 contamination that hampers 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 zinc 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: 6 hours - 20 °C: dustdry: 1 hours tackfree: 2,5 hours dry: 4 hours - 30 °C: dustdry: 40 minutes tackfree: 1,5 hours dry: 3 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 or with Thinner 41 (for industrial application)
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- **Application by conventional spray-gun**

Dilution	10 to 20% with Zingasolv or with Thinner 41 (for industrial application)
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 with Thinner 41 (for industrial application)
Pressure at the nozzle	100 to 300 bar
Nozzle opening	0,017 to 0,024 inch

- **Remarks**

Stripe coat	It is always recommended to treat corners, sharp edges, bolts and nuts before applying a uniform coat.
Dry layer thickness	Recommended: 60 to 100 µm Maximum: 120 to 160 µm
Cleaning	With Zingasolv or with Thinner 41 (for industrial application)

For more specific and detailed recommendations concerning the application of Alufer N, please contact the Zingametall representative. For detailed information about the health and safety hazards and precautions for use, please refer to the Alufer N **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.