



# ZINGATARFREE

Zingatarfree is a one-pack moisture curing polyurethane paint. It exhibits excellent water and corrosion resistance (thanks to the MIO particles) and outstanding chemical resistance. These properties make Zingatarfree the ideal product to replace normal coal tar products. Zingatarfree is recommended for use in duplex systems with ZINGA for application on structures in immersion or embedded in soil.

## PHYSICAL DATA AND TECHNICAL INFORMATION

### WET PRODUCT

Components	- Micaceous Iron Oxides (MIO) - Magnesium Silicates - Iron Oxide
Binder	Moisture curing aromatic polyisocyanate prepolymers
Density	1,55 kg/dm <sup>3</sup> (±0,05 Kg/dm <sup>3</sup> ) at 20°C
Solid content	- 82% by weight (± 2%) - 66% by volume (± 2%)
Type of thinner	Zingasolv
Viscosity	110 KU (±5 KU) at 20°C
VOC	< 295 g/L (= 190 g/Kg)

### DRY FILM

Colour	Black (standard), Dark Grey (on request)
Gloss	Mat

### PACKING

1 L	Available
5 L	Available
10 L	Available
20 L	Available

### CONSERVATION

Shelf life	2 years in the original, unopened package.
Storage	Store in a dry environment at temperatures between -20°C and +40°C.



## CONDITIONS

### SURFACE PREPARATION

When the waiting time between the successive coats is abnormally prolonged or in extremely polluted areas, the coated 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 ZINGA should be removed with water and rigid nylon brush.

### ENVIRONMENTAL CONDITIONS DURING APPLICATION

Ambient temperature	- Minimum 0°C - Maximum 40°C
Relative humidity	- Minimum 30% - Maximum 98%
Surface temperature	Minimum 3°C above the dew point.

## APPLICATION INSTRUCTIONS

### GENERAL

Application methods	Zingatarfree can be applied on top of ZINGA by brush and roller, conventional spray-gun or airless spraying.
Stripe coat	it is always recommended to treat corners, sharp edges, bolts and nuts before applying a uniform coat.
Cleaning	Cleaning of equipment with Zingasolv.

### APPLICATION BY BRUSH AND ROLLER

Dilution	5 to 10% with Zingasolv (v%)
----------	------------------------------

### 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 SPRAY

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%
Full coat	2 hours after touch dry, DFT no more than 70-80 µm per layer

## OTHER INFORMATION

### COVERAGE AND CONSUMPTION

Theoretical coverage	- For 90 µm DFT: 7,3 m <sup>2</sup> /L
Theoretical consumption	- For 90 µm DFT: 0,14 L/m <sup>2</sup>
Practical coverage and consumption	Depends upon the roughness profile of the substrate and the application method

### DRYING PROCESS AND OVERCOATING

Drying time	For 90 µm DFT at relative humidity of 75%:			
		10°C	20°C	30°C
	Dust dry	2,5 hours	1 hours	40 min.
	Touch dry	4 hours	2,5 hours	1,5 hours
	Dry to handle	8 hours	6 hours	4 hours
Drying time before immersion	A curing time of 3 days has to be respected before immersion of the Zingatarfree.			
Overcoating	For 90 µm DFT at relative humidity of 75%:			
		10°C	20°C	30°C
	Minimum time	24 hours	6 hours	4 hours
	Maximum time	3 months	1 month	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.				

### RECOMMENDED SYSTEM

ISO 12944	Tested according to ISO12944-6 <b>C5 High</b> and in immersion in salt or brackish water ( <b>Im2</b> ) or in the ground ( <b>Im3</b> ) with <b>Very High</b> durability (Life expectancy > 25 years):  ZINGA 1 x 60 µm DFT + Zingatarfree 2 x 90 µm DFT
-----------	--

For more specific and detailed recommendations concerning the application of Zingatarfree, please contact the Zingametal representative. For detailed information about the health and safety hazards and precautions for use, refer to the Zingatarfree safety data sheet.

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 15 days 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.