



# Technical data sheet

PROTECTION MADE EASY

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## Polyzinc

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### Description and destination of the product

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**Polyzinc** is a zinc rich one-pack polyurethane paint that reacts chemically with the air humidity. The adherence on sandblasted surfaces is excellent, the elasticity is higher than those of classic two-pack zinc rich paints. **Polyzinc** still hardens at low temperatures and high air humidity. The product is used as shopprimer en as primer in high qualitative anticorrosion systems.

Remark:

Maximum (dry) resistance of the **Polyzinc** paint film to temperatures:

- + 120 °C (permanent)
- + 140 °C (during maximum 15 minutes)

Higher temperatures will cause a decomposition of the paint film (cracking)

### Type of binder

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Moisture curing, aromatic polyisocyanate prepolymers.

### Type of pigment

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Zinc powder (92 (± 2) % weight in the dry paint film).

### Colour

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Grey

### Technical data

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- **Density:** 3.17 (± 0.05) g/cm<sup>3</sup>
- **Solids content:** 61 (± 2) % in volume  
89 (± 2) % in weight
- **VOC:** 342 g/L (not diluted)  
< 490 g/L (10 % diluted)

- Indicative drying times (R.H. 75%) for 40 micron layer thickness:

	Dustdry	Tackfree	Dry	Full Resistance
10°C	20 minutes	1 hour	5 hours	7 days
20°C	15 minutes	30 minutes	3 hours	4 days
30°C	10 minutes	15 minutes	1.5 hours	3 days

- **Theoretical yield:** 15.2 m<sup>2</sup>/L for 40 microns layer thickness  
The practical yield can largely be influenced by the roughness and porosity of the substrate, the applied layer thickness or the losses by airless application.

## Surface preparation

- All contaminations on the surface that could hamper the removal of corrosion must first be removed with appropriate means.
- Surfaces that are polluted with grease or oil should be washed down with solvents, alkaline solutions or emulsifier.
- Salts or other water dilutable contaminations should be removed with water and brush, water under high pressure or jet.
- After this cleaning, the steel surface must be blasted up to Sa 2.5
- If a second layer **Polyzinc** is applied, the surface must first be degreased, cleaned and if necessary freed from rust with the appropriate means (see above). Possible white rust should be removed with a hard nylon brush and water.

## Use

Application by brush, pneumatic or airless sprayer.

	% Dilution	Thinner	Pressure (bar)	Nozzle
Brush	0 – 5 %	<b>Thinner 1</b>	-	-
Roller	0 – 5 %	<b>Thinner 1</b>	-	-
Pneumatic gun	5 – 10 %	<b>Solvatane</b>	3-4 bar	1.5-2 mm
Airless gun	0 – 5 %	<b>Solvatane</b>	120-150 bar	0.017-0.02 inch

At extreme temperatures, humidity circumstances or air stream, **Thinner 1** is recommended for airless gun application. It is always recommended to brush corners, sharp edges, bolts or nuts before applying a flat coat.

Indicative overcoating times (R.H. 75 %) for 50 microns dry layer thickness:

	Minimum	Maximum
0°C	16 hours	1 week
5°C	10 hours	1 week
10°C	6 hours	1 week
20°C	4 hours	1 week
30°C	2 hours	3 days

The recommended layer thickness is 30 to 50 microns, depending on the system. Over-layer thickness (above 70 micron and depending on the surrounding circumstances) can lead to film defects.

## Application conditions

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**Polyzinc** can be applied at a relative humidity between 30 and 98 % (no condensation). The air and surface temperature should be between 0°C (no ice) and +40°C. The temperature of the surface must be at least 3°C higher than dew point.

## Storage stability

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Minimum 2 years in the original, unopened packing between -20°C and +50°C in a dry environment. Keep the cans well closed in order to avoid polymerisation by air humidity.

## Safety measure

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For detailed information about safety measures, personal protection and transport data of this product, we refer to the safety data sheet.

*The last update of our technical data sheets is always available at our website: [www.libertpaints.be](http://www.libertpaints.be)*

### **Disclaimer**

*The information given in this technical data sheet is only a general product description, based on our experiences and tests and therefore does not represent a specific practical case. Consequently Libert Paints doesn't guarantee the functionality or result and takes no responsibility in this respect.*

*We advise our clients to test the applicability of the product to the nature and the state of the surfaces and to carry out the necessary representative tests in case of doubt. Please contact our R&D department as the occasion arises.*

*Attention: our clients should verify whether the present technical data sheet hasn't been replaced by a more recent version.*