



# zandleven coatings

## MONOPOX® ZL 70 IJZERGLIMMER epoxy

A two components high solid epoxy coating pigmented with micaceous iron oxide (mio) and inert extenders.

- Resistant against water, polluted water, seawater, alkaline and weak acid solutions, mineral oil, aliphatic and aromatic solvents.
- Can be applied in thick layers.
- After hardening excellent chemical and mechanical resistance.

**Application** as intermediate and/or finish layer for coating systems on steel in industrial and naval environment.

- Can even be recoated after long outdoor exposure with two components and conventional paint systems.
- By outdoor application finish layer will chalk.

### Product information

Finish	Semi-gloss metallic lustre
Colour	8 colours according to mio colour card
Mass density	approx. 1.5 kg/L (mixed product)
Solids content by volume	ca. 70 volume % (mixed product)
VOC	approx. 300 gr./L (volatile organic compound)
Recommended film thickness	80 -140 µm d.f.t. per layer 115-200 µm w.f.t. per layer (undiluted)
Theoretical spreading rate	At 80 µm d.f.t. 8.6 m²/L At 125 µm d.f.t. 5.5 m²/L
Practical spreading rate	Depending on several factors like shape of object, profile of surface, method of application, application circumstances and experience. A few guiding principles are: Brush/roller 85-90% of the theoretical spreading rate Spraying 50-70% of the theoretical spreading rate
Flashpoint ISO 1523	Base 23°C Hardener 2V4 30°C Thinner FGM 631 26°C Thinner WTD 107 14°C
Dry temperature resistance	120°C
Durability	At least 12 months, provided that it has been stored in closed original packing at a dry and cool spot.

### Drying times

For d.f.t. up to 120 µm

Dust dry

Transportable

Complete hardening

Recoat able:

Minimum interval

Maximum interval \*

30°C	20°C	10°C	5°C
½ hour	1½ hour	2 hours	3 hours
8 hours	16 hours	24 hours	36 hours
3 days	4 days	6 days	10 days
4 hours	6 hours	16 hours	32 hours
7 days	14 days	1 month	3 months

\* This period can be extended by cleaning and sanding the coating prior to application of the next layer.

Film thickness, ventilation, temperature and relative humidity are of great influence on the drying times.



## Application instructions

### Mixing ratio

Volume:	Base – hardener 2V4	82.5:17.5
Weight:	Base – hardener 2V4	89:11

### Mixing instructions

Base and hardener should be mixed and applied at temperatures above 10 °C. At lower temperatures extra thinner is needed, which gives a slighter resistance against sagging and which will delay hardening. The components should be mixed homogeneously, with a mechanical blender. Pay attention to the side and bottom of the can.

### Induction time

At 20 °C not necessary  
At 10 °C at least 15 minutes

### Pot life after mixing

20 litre packing: approx. 16 hours at 10 °C  
approx. 8 hours at 20 °C  
approx. 5 hours at 30 °C

### Optimal application circumstances

Temperature : 15-25 °C  
Humidity : 40-75%

Technical and esthetical properties can change when the product has been applied under different conditions.

## Usage information

### Type of thinner

Recommended thinner (depending on application and equipment)

### Nozzle orifice

### Nozzle pressure

### Typical d.f.t.

### Cleaning of equipment

Airless-spray	Airspray	Brush/roller
FGM 631 / WTD 107	FGM 631 / WTD 107	FGM 631 / WTD 107
5 – 10 vol. %	5 – 15 vol. %	0 – 5 vol. %
0.43 – 0.48 mm 0.017 – 0.019 inch	1.5 – 2.5 mm	
150 – 180 bar	3 – 5 bar	
150 µm	100 µm	80 µm
Thinner FGM 631 / WTD 107		

## Surface conditions

### Steel

#### New steel:

Acraton HS-U, Monopox Metalcoat ZL 70, Monopox SF-HB, Monopox ZF-universal, Monopox micro-zink or Monopox LG micro-zink can be used as a primer.

#### Repair and maintenance:

Clean the surface thoroughly with a suitable cleaning preparation or by steam cleaning.

Remove salts and other water-soluble impurity by spraying with clean tap-water under high pressure.

Remove rust a.o. by (water)blasting Sa 2½ or de rust mechanical until St. 2-3.

Apply the advised paint system on a clean surface.

- Mechanical or hand de rusting gives less quality than (water)blasting and will result in less protection of the applied paint system.



# zandleven coatings

## MONOPOX® ZL 70 IJZERGLIMMER epoxy

### Product Characteristics

No coating work shall be carried out when the temperature of the surface is less than 3 °C above dewpoint and when the substrate temperature is below 5 °C.

Due to the presence of solvents, applying this product in confined spaces, adequate ventilation has to be ensured.

At low temperature and under humid conditions, amine blushing can occur, which can effect the intercoat adhesion negatively. Prior to the application of the next layer, the previous layer must be checked for this phenomena.

Discoloration or loss of gloss or other surface defects, can occur during drying and curing by condensation and or early water spotting. In particular bright and "full" colours.

This coating product is based on epoxy technology. It is recommendable that it should be overcoated with a durable finish.

Maximum film build in one coat is best attained by airless spray. Application by other techniques, it may be necessary to apply multiple coats in order to achieve the total specified dry film thickness.

### Safety description

See safety data sheet

### Ventilation rules

Minimum required quantity of air to comply with:

	MAC	10 % LEL
Monopox ZL 70 IJzerglimmer	1495 m³/L	57 m³/L
Thinner FGM 631	3995 m³/L	160 m³/L
Thinner WTD 107	4085 m³/L	168 m³/L

MAC = Maximum Acceptable Concentration

LEL = Lower Explosion Limit

Also consult the security information sheets

### Pretreatment / Labeling / Technical Terms (downloadable from [www.zandleven.com](http://www.zandleven.com))

A 1 Labeling of paint products in the European Community

A 2 Physical data

A 3 Persistency list for Monopox HB systems

A 4 General guidelines for steel preservation

A 6 Pretreatment of construction steel

These data have been drawn up to the best of our knowledge and were correct at the date of issue. However we cannot accept full responsibility, because de choice of products and circumstances during elaboration of the systems fall outside our judgement. This documentation sheet will not automatically be replaced in case of modification.  
The English language text is a translation. In case of doubt the Dutch language original text has to be consulted as the authoritative text.

