



zandleven coatings

MONOPOX® PREMIUM

epoxy

A two components high build epoxy primer/coating pigmented with non hygroscopic inert extenders with very good barrier properties.

- Can be applied in thick layers.
- After hardening excellent chemical and mechanical resistance.

Application as primer and/or coating on steel structures, Stainless Steel, Cor-ten steel, concrete in aggressive industrial and maritime environment C4/C5 according ISO 12944.

- Tested in accordance with ISO standard 16773 , Electrochemical Impedance Spectroscopy
- When exposed direct to sunlight, coating will chalk.

Product information

Finish	Semi-gloss (25 GU, depending on colour)
Colour	RAL-colours
Mass density	approx. 1.3 kg/L (mixed product, depending on colour)
Solids content by volume	approx. 62 volume % (mixed product, depending on colour)
VOC	approx. 330 gr./L (volatile organic compound)
Recommended film thickness	70 -120 µm d.f.t. per layer 113-193 µm w.f.t. per layer (undiluted)
Theoretical spreading rate	At 70 µm d.f.t. 8.9 m ² /L At 120 µm d.f.t. 5.2 m ² /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 100 µm

	30°C	20°C	10°C	5°C
Dust dry	½ hour	1½ hour	2 hours	3 hours
Transportable	8 hours	16 hours	24 hours	36 hours
Complete hardening	3 days	4 days	6 days	10 days
Recoatable:				
Minimum interval	4 hours	6 hours	8 hours	16 hours
Maximum interval *	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.





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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 Premium	1985 m ³ /L	73 m ³ /L
Thinner FGM 631	3995 m ³ /L	160 m ³ /L
Thinner WTD 107	4085 m ³ /L	168 m ³ /L

MAC = Maximum Accepted Concentration

LEL = Lower Explosion Limit

Also consult the safety information sheets

Pretreatment / Labelling / Technical Terms (downloadable from 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 steelpreservation
- 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.
English language text is a translation. In case of doubt the Dutch language original text has to be consulted as the authoritative text.