zandleven coatings

MONOPOX® HB COATING

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A two components high build epoxycoating pigmented with titanium white and inert extenders.

- Resistant against water, polluted water, seawater, alkaline and weak acid solutions, mineral oil, aliphatic and aromatic solvents.
- Excellent attachment on blasted or chemically pre-treated stainless steel.
- Can be applied in thick layers.
- After hardening excellent chemical and mechanical resistance.
- Can be used as intermediate and/or finish layer for coating systems on steel and concrete in industrial, maritime and nuclear environment.
- Can even be recoated after long outdoor exposure with two components and conventional paint systems.
- When exposed direct to sunlight, coating will chalk.

Product information		
Finish	Semi-gloss (25 G	U, depending on colour)
Colour	RAL-colours	
Mass density	approx. 1.4 kg/L (mixed product, depending on colour)
Solids content by volume	approx. 60 volum	e % (mixed product, depending on colour)
VOC	approx. 325 gr./L	(volatile organic compound)
Recommended film thickness	70-120 μm d.f.t. p	er layer
	115-200 μm w.f.t.	per layer (undiluted)
Theoretical spreading rate	At 70 µm d.f.t. 8.	6 m²/L
	At 120 µm d.f.t. 5.	0 m²/L
Practical spreading rate	Depending on sev	veral factors like shape of object, profile of surface,
	method of applica	tion, application circumstances and experience.
	A few guiding prin	iciples are:
	Brush/roller	85-90% of the theoretical spreading rate
	Spraying	50-70% of the theoretical spreading rate
Flashpoint ISO 1523	Base	23 <i>°</i> C
	Hardener 2V4	30 <i>°</i> C
	Thinner FGM 631	26°C
	Thinner WTD 107	14℃
Dry temperature resistance	120 <i>°</i> C	
Durability	At least 12 month	s, provided that it has been stored in closed
	original packing a	t a dry and cool spot.



Drying times

For d.f.t. up to 120 µm Dust dry Transportable Complete hardening Recoatable: Minimum interval Maximum interval *

30 ℃	20 <i>°</i> C	10 <i>°</i> 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	8 hours	16 hours
7 days	14 days	1 month	3 months
* This period can be extended by cleaning and sanding			
the coating	prior to application	ation of the ne	xt layer.

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

Application instructions			
Mixing ratio	Volume:	Base – hardener 2V4	81:19
	Weight:	Base – hardener 2V4	87,5:12,5
Mixing instructions	At lower tempera against sagging The components	er should be mixed and applied at te tures extra thinner is needed, which and which will delay hardening. should be mixed homogeneously, al blender. Pay attention to the side a	gives a slighter resistance
Induction time	At 20 °C not nece	,	
	At 10°C at least		
Pot life after mixing	20 litre packing:	approx. 16 hours at 10℃	
		approx. 8 hours at 20° C	
		approx. 5 hours at 30 ℃	
Optimal application circumstances	Temperature : 1 Humidity : 4	5-25℃ 0-75%	

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

Usage information	Airless-spray	Airspray	Brush/roller
Type of thinner	FGM 631 / WTD 107	FGM 631 / WTD 107	FGM 631 / WTD 107
Recommended thinner (depending on application and equipment)	5 – 10 vol. %	10 – 15 vol. %	0 – 5 vol. %
Nozzle orifice	0.41 – 0.46 mm 0.016 – 0.018 inch	1.5 – 2.5 mm	
Nozzle pressure	150 – 180 bar	3 – 5 bar	
Typical d.f.t.	80-120 μm	70-100 μm	60-80 μm
Cleaning of equipment	Thinner FGM 631 / WTD	107	

Surface conditions

Steel

New steel:

Monopox SF-HB, Monopox ZF-universal, Monopox Metalcoat ZL 70, Monopox micro-zinc or Monopox LG micro-zinc 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 21/2 or derust mechanical until St. 2-3.

Apply the recommended paint system on a clean surface.

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

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Product Characteristics

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

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 HB Coating	1600 m³/L	74 m³/L
	Thinner FGM 631	3995 m³/L	160 m³/L
	Thinner WTD 107	4085 m³/L	168 m³/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.

The English language text is a translation. In case of doubt the Dutch language original text has to be consulted as the authoritative text.