zandleven coatings

MONOPOX® FP Primer

epoxy

C55

A two components high build epoxy primer with zinc phosphate, for intumescent coatings.

- High-grade anti-corrosive, free from lead and chrome.
- Application and hardening is possible at high relative humidity up to 90%.
- After hardening excellent mechanical resistance and elasticity.

Application as anti-rust primer with improved adhesion properties for intumescent coating systems on steel constructions in industrial environment.

When exposed direct to sunlight, coating will chalk.

Product information			
Finish	Semi-gloss		
Colour	Limited range		
Mass density	approx. 1.4 kg/L	(mixed product)	
Solids content by volume	approx. 64 volum	ne % (mixed product)	
VOC	approx. 315 gr./L	(volatile organic compound)	
Recommended film thickness	70-100 μm d.f.t	. per layer	
	110-156 μm w.f.t	. per layer (undiluted)	
Theoretical spreading rate	At 70 µm d.f.t. 9	0.1 m²/L	
	At 100 µm d.f.t. 6	5.4 m²/L	
Practical spreading rate	Depending on several factors like shape of object, profile of surface,		
	method of applic	ation, application circumstances and experience.	
	A few guiding pri	nciples 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℃	
	Thinner FGM 63	1 26 <i>°</i> C	
	Thinner WTD 10	7 14℃	
Dry temperature resistance	120 <i>°</i> C		
Durability	At least 12 montl	ns, provided that it has been stored in closed	
	original packing a	at a dry and cool spot.	



Drying times

For d.f.t. up to 100 µm Dust dry Transportable Complete hardening Recoatable: Minimum interval Maximum interval *

30 <i>°</i> C	20 ℃	10 <i>°</i> C	5℃
1⁄4 hour	¹∕₂ hour	1 hour	11/2 hours
8 hours	12 hours	24 hours	36 hours
3 days	6 days	12 days	28 days
2 hours 7 days	3 hours 14 days	8 hours 1 month	16 hours 3 months
*) This period surface.	d can be extend	ded by sanding	g and cleaning the
	s, ventilation, t		nd relative humidity

P.O. Box 131 • NL-8900 ac leeuwarden • the Netherlands +31 (0) 058-2129545 • www.zandleven.com • info@zandleven.com page 1 of 3

Application instructions Mixing ratio	Volume: Weight:	Base – harc Base – harc			80:20 86:14
Mixing instructions	At lower tempera against sagging The components	atures extra th and which will s should be m	hinner II dela iixed h	, ,	a slighter resistance
Induction time	At 20 ℃ not nece At 10 ℃ at least	,			
Pot life after mixing	20 litre packing:	ap	prox.	16 hours at 10℃ 8 hours at 20℃ 5 hours at 30℃	
Optimal application circumstances	Temperature:1 Humidity :4				
	Technical and es applied under dif			can change when the pr	oduct has been

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	2.0 – 2.5 mm	
Nozzle pressure	150 – 180 bar	3 – 5 bar	
Maximum attainable d.f.t.	80-100 μm	70-100 μm	60-80 μm
Cleaning of tools	Thinner FGM 631 / WTI	D 107	

Surface	conditions
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Steel

New steel: Blasting according to the ISO standard 8501-1:1988 Sa 2½. Roughness profile Ra 10-12 μm Rz 50-60 μm. Surface must be clean and dry. Repair and maintenance: Clean the surface thoroughly with 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 $2\frac{1}{2}$ 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.

Hot-dip galvanised steel Sweep blast with a fine, non-metallic blasting media, until a level roughened surface is obtained, or degrease the surface and after that phosphatize or chromatize (according to the instructions of the manufacturer)

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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 FP Primer	1895 m³/L	70 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 / Labeling / 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
- material safety data sheet
- information hardeners and thinners
- surcharge colour category
- sales & delivery condition



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.