zandleven coatings

MONOPOX® ZF UNIVERSAL

epoxy

C22

Two components high build epoxyprimer with zincphosphate.

- High-grade anti-corrosive, free from lead and chrome.
- Easy to apply in thick layers.
- After hardening excellent mechanical resistance and elasticity.

Application as anti-rust primer/coating for coating systems on steel constructions in industrial environment.

- Even after long outdoor exposure recoatable with practically any paint system.
- Excellent use as finish layer.
- When exposed direct to sunlight, coating will chalk.

Product information

Semi-gloss (approx.25 GU, depending on colour)			
RAL colours			
approx. 1.4 kg/L (mixed product, depending on colour)			
approx. 64 volume % (mixed product, depending on colour)			
approx. 315 gr./L (volatile organic compound)			
70-120 μm d.f.t. per layer			
110-185 μm w.f.t. per layer (undiluted)			
At 70 μm d.f.t. 9.1 m²/L			
At 120 μm d.f.t. 5.3 m²/L			
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
Base 23 °C			
Hardener 2V4 30 °C			
Thinner FGM 631 26 °C			
Thinner WTD 107 14 °C			
120°C			
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 Recoatable: Minimum interval Maximum interval *

30 ℃	20 ℃	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 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	80:20
	Weight:	Base – hardener	2V4	86:14
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 ℃ not nece At 10 ℃ at least	,		
Pot life after mixing	20 litre packing:		16 hours at 10℃ 8 hours at 20℃ 5 hours at 30℃	
Optimal application circumstances	Temperature : 1 Humidity : 4	5-25℃ 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

Surface conditions

Steel

applied under different conditions.					
Airless-spray	Airspray	Brush/roller			
FGM 631 / WTD 107	FGM 631 / WTD 107	FGM 631 / WTD 107			
5 – 10 vol. %	10 – 15 vol. %	0 – 5 vol. %			
0.41 – 0.46 mm	2.0 – 2.5 mm				
0.016 – 0.018 inch					
150 – 180 bar	3 – 5 bar				
80-120 μm	70-100 μm	60-80 μm			
Thinner FGM 631 / WTD 107					

New steel: Blasting according to the ISO standard 8501-1:1988 Sa 2½. Roughness profile Ra 10-12 μ m Rz 50-60 μ m. 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.

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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	Minimum required quantity of air to comply with:		
		MAC	10 % LEL	
	Monopox ZF Universal	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 Con	centration		
	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.