



zandleven coatings

POLYFINISH® MC-MIOX

polyurethane

A single pack, moisture cured polyurethane micaceous iron oxide.

- After curing, an excellent corrosion and abrasion resistant coating will be obtained.
- Curing at a relative humidity between 50 - 98 % and temperatures down to -5°C.

Application can be used as an intermediate and topcoat under industrial, maritime and nuclear conditions.

- Suitable for application in C3 - C5 environment according ISO 12944.
- Can be used as primer/sealer on zinc rich primer like Polyfinish MC-Zinc HS, Monopox Micro zink, Monopox LG micro-zink and Zinksilicaat ZL 400-55.
- Complies with Cyclic Corrosion Test (Norsok and ISO 20340) in combination with Polyfinish MC-Zinc HS.

Product information at 20 °C

Finish	Mat
Colour	Grey
Mass density	approx. 1.5 kg/L
Solids content by volume	approx. 52 volume % (ISO 3251)
VOC	approx. 425 gr./L (volatile organic compound)
Recommended film thickness	50 - 150 µm d.f.t. per layer
Theoretical spreading rate	At 80 µm d.f.t. 6,5 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	Paint 44°C Thinner BB 55 27°C
Dry temperature resistance	120°C
Shelf life	Approx. 6 months in unopened can. After opening the can, the coating should be used within two days, because moisture absorption can also continue in a closed can.

Drying/curing properties at substrate temperature and 70% R.H:

For d.f.t. up to 80 µm

Dust dry

Transportable

Completely through hardened

Recoatable:

Minimum interval

Maximum interval *

20°C	10°C	5°C
20 minutes	30 minutes	1 hour
2 hours	3 hours	4 hours
5 days	7 days	10 days
2 hours	4 hours	8 hours
24 hours	36 hours	48 hours

*) 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 properties.



Ganzlin



Application instructions

Potlife after mixing

20 litre packaging:

approx. 3 hours at 10 °C
approx. 2 hours at 20 °C
approx. 1 hours at 30 °C

Optimal application
circumstances

During application and curing the temperature should be above -5 °C, and the relative humidity between 50-98%
During application and hardening in closed and small spaces it is necessary to refresh the air continually to remove the solvent vapours, this because of curing, health and safety.

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
Thinner BB 55	Thinner BB 55	Thinner BB 55
0-5 vol. %	0-10 vol. %	0-5 vol. %
0,33 – 0,43 mm 0,013 – 0,017 inch	1,5 – 2,0 mm	
150 – 200 bar	3 – 5 bar	
80 µm	70 µm	60 µm
Thinner BB 55		

Surface conditions

Obtaining the highest possible quality of the applied product it is very important that the substrate is prepared carefully and correctly. The required surface roughness and a dry and clean substrate are the main parameters. Prior to application of the coating, the substrate must be examined according to the ISO standard 8504:2000.

All soluble salts, oil, grease, dirt and other contaminates must be removed.

Steel

New steel:

Polyfinish MC-Zinc HS, Monopox LG Micro zink, Monopox Micro zink or Zinksilicaat ZL 400-55 can be used as a primer.

Repair and maintenance:

Clean the surface carefully with a suitable solvent containing cleaning preparation, or a water-soluble emulsifier to remove oil, grease and dirt.
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 derust mechanically until St. 2-3.

Touch up on a clean and dry surface with a 'surface tolerant' coating like Polyfinish MC-ST.

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



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Product Characteristics

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

Higher film thickness, insufficient ventilation, lower temperatures or humidity will require longer cure times and can result in solvent entrapment and premature failure.

A completely clean surface is mandatory to ensure intercoat adhesion, especially after long recoating intervals. Any dirt, oil and grease has to be removed, e.g. with suitable detergent. Salt to be removed by fresh water hosing.

Safety description

See safety data sheet

Ventilation rules

Minimum required quantity of air to comply with:

	MAC	10 % LEL
Polyfinish MC-MIOX	m ³ /L	m ³ /L
Thinner BB 55	3935 m ³ /L	165 m ³ /L

MAC = Maximum Acceptable Concentration

LEL = Lower Explosion Limit

Also consult the security 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 4 General guidelines for steel preservation
- A 6 Pretreatment of construction steel
 - material safety data sheet
 - information hardeners and thinners
 - sales & delivery condition



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