



zandleven coatings

ACRATON® HS-U/MIO

epoxy

A two components high solid epoxy coating pigmented with micaceous iron oxide and inert extenders.

- Apply in thick layers.
- Exceptional high elasticity and a good mechanical resistance.
- Resistant against spilling and splashing of an extensive number of chemicals.

Application as coating on steel constructions in aggressive industrial and maritime environment such as dike walls, lock doors, ship walls and everywhere else where coal-tar epoxycoatings cannot be applied because of environmental and health reasons.

- Even after long lasting outdoor exposure can it be recoated with practically any coatingsystem.
- By outdoor application finish layer will chalk.

Product information

Finish	Semi-gloss
Colour	8 colours according to the micaceous iron oxide colour card
Mass density	approx. 1.65 kg/L (mixed product)
Solids content by volume	ca. 88 volume % (mixed product)
VOC	approx. 105 gr./L (volatile organic compound)
Recommended film thickness	100-250 µm d.f.t. per layer 115-285 µm w.f.t. per layer (undiluted)
Theoretical spreading rate	At 100 µm d.f.t. 8.8 m ² /L At 250 µm d.f.t. 3.5 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 35 °C Hardener 2V41 29 °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 175 µm

Dust dry

Transportable

Complete hardening

Recoatable:

Minimum interval

Maximum interval *

30 °C	20 °C	10 °C	5 °C
1 hour	2 hours	3 hours	5 hours
8 hours	16 hours	24 hours	48 hours
3 days	5 days	8 days	14 days
5 hours	8 hours	16 hours	24 hours
5 days	10 days	21 days	30 days

* 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 2V41	83:17
	Weight:	Base – hardener 2V41	90:10
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 blended homogeneously, with a mechanical blender. Pay attention to the side and bottom of the can.		
Induction time	At 20 °C not necessary At 10 °C at least 10 minutes		
Pot life after mixing	20 litre packing:	approx. 3 hours at 10 °C approx. 2 hours at 20 °C approx. 1 hours at 30 °C	
Optimal application circumstances	Temperature : 15-25 °C Humidity : 40-75%		

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)	0 – 5 vol. %	5 – 10 vol. %	0 – 5 vol. %
Nozzle orifice	0.48 – 0.53 mm 0.019 – 0.021 inch	2,0 – 2.5 mm	
Nozzle pressure	200 – 220 bar	3 – 4 bar	
Typical d.f.t.	125-250 µm	100-175 µm	75-125 µm
Cleaning of equipment	Thinner FGM 631 / WTD 107		

Surface conditions

Steel

New steel:

As primer Acraton HS-U, Monopox ZF-Universal, Monopox micro zink, Monopox LG micro zink or Monopox SF-HB can be applied, this depending on the advice of the manufacturer.

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 2½ or derust mechanical until St. 2-3.

Apply the advised 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°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
Acraton HS-U/MIO	1039 m³/L	42 m³/L
Thinner FGM 631	3995 m³/L	160 m³/L
Thinner WTD 107	4085 m³/L	168 m³/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 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.

