zandleven coatings

ACRATON® HS-400

A two components high solid epoxy primer/coating pigmented with zinc phosphate and inert extenders.

- Applicable in thick layers.
- Good elasticity and mechanical resistance.
- Resistant against spilling and splashing of an extensive number of chemicals.

Application as primer and/or coating on steel constructions in aggressive

industrial and maritime environment such as dike walls, lock doors and ship hulls.

- Even after long lasting outdoor exposure can it be recoated with practically any coating system.
- When exposed direct to sunlight, coating will chalk.

Product information		
Finish	Semi-gloss (app	prox.50 GU, depending on colour)
Colour	RAL colours an	d aluminium
Mass density	approx. 1.45 kg	/L (mixed product)
Solids content by volume	approx. 80 volu	me % (mixed product, depending on colour)
VOC	approx. 175 gr.	L (volatile organic compound)
Recommended film thickness	200-500 µm d.f	t. per layer
	250-625 μm w.f	.t. per layer (undiluted)
Theoretical spreading rate	At 200 µm d.f.t.	4.0 m²/L
	At 400 µm d.f.t.	2.0 m²/L
Practical spreading rate	Depending on s	everal factors like shape of object, profile of surface,
	method of appli	cation, application circumstances and experience.
	A few guiding p	rinciples are:
	Brush/roller	85-90% of the theoretical spreading rate
	Spraying	50-70% of the theoretical spreading rate
Flashpoint ISO 1523	Base	35℃
	Hardener 2V15	29℃
	Thinner FGM 6	31 26℃
	Thinner WTD 1	07 14℃
Dry temperature resistance	120 <i>°</i> C	
Durability	At least 12 mon	ths, provided that it has been stored in closed
	original packing	at a dry and cool spot.



Drying times

For d.f.t. up to 500 µm Dust dry Transportable Complete hardening Recoatable: Minimum interval

Maximum interval *

20 <i>°</i> C	10 <i>°</i> C	5℃
2 hours	3 hours	5 hours
20 hours	36 hours	58 hours
5 days	8 days	14 days
8 hours	16 hours	24 hours
10 days	21 days	30 days
	2 hours 20 hours 5 days 8 hours	2 hours3 hours20 hours36 hours5 days8 days8 hours16 hours

prior to application of the next layer.

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

epoxy

Application instructions	Ap	plica	tion	instru	ctions
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Mixing ratio		e – hardener 2V15	77:23
	0	e – hardener 2V15	85:15
Mixing instructions		ould be mixed and applied at extra thinner is needed, which	
	resistance against sag	ging and which will delay hard	dening.
		Ild be mixed homogeneously,	
	with a mechanical ble		
Induction time	At 20 °C not necessary		
	At 10 ℃ at least 10 mi		
Pot life after mixing	20 litre packing:	approx. 3 hours at 10℃	
		approx. 2 hours at 20 ℃	
		approx. 1 hour at 30 ℃	
Optimal application	Temperature : 15-2		
circumstances	Humidity : 40-7	5%	
	Technical and esthetic	cal properties can change whe	n the product has been
	applied under differen		in the product 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	0 – 5 vol. %	5 – 10 vol. %	0 – 5 vol. %
(depending on application			
and equipment)			
Nozzle orifice	0.48 – 0.53 mm	2,0 – 2.5 mm	
	0.019 – 0.021 inch		
Nozzle pressure	170 – 200 bar	3 – 4 bar	
Typical d.f.t.	800 μm	400 μm	150 μm

Typical d.f.t. Cleaning of equipment

Surface conditions

Steel

New steel:

Thinner FGM 631 / WTD 107

Blast according to ISO standard 8501-1:1988 Sa 2½. Roughness profile Ra 10-12 μm Rz 50-60 $\mu m.$ Surface should be clean and dry.

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 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	Minimum required quantity of air to comply with:		
		MAC	10 % LEL	
	Acraton HS-400	1150 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 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 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.

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