zandleven coatings

ACRATON® DOLPHIN

epoxy

A two components epoxy coating for swimming pools, sustainable high solid coating with excellent adherence on concrete and other kind of stones.

- High build up to 300 µm, using airless spray equipment
- A balanced ration of inert fillers and a high binder technology results in a high barrier level
- Excellent resistant against acids and solvents.
- Curing at low temperatures down to 5°C.
- Easy to clean and resistant against practically any cleaning agent

Application as protection and emballishing of concrete bathing-pools.
- When non-slip is required, quartz grain can be scattered.

Product information

Finish	Semi-gloss	
Colour	According to Acraton colour card	
Mass density	approx. 1.40 kg/L (mixed product)	
Solids content by volume	approx.. 81 volume % (mixed product)	
VOC	approx. 165 gr./L (volatile organic compound)	
Recommended film thickness	150 µm d.f.t. per layer in a two-layer-system	
Theoretical spreading rate	At 150 µm d.f.t. 5.4 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	Base	>25°C
	Hardener 2V59	>99°C
	Thinner FGM 631	26°C
	Thinner BFJ 181 (slow)	42°C
Shelf life	At least 12 months, provided that it has been stored in closed original packing at a dry and cool spot.	

Specific qualities

- Excellent impact, chemical and abrasion resistance.
- Also applicable as a primer for concrete surfaces.

Drying times

For d.f.t. up to 200 µm

	30°C	20°C	10°C	5°C
Dust dry	1½ hours	3½ hours	6 hours	10 hours
Walkable	10 hours	24 hours	48 hours	3 days
Complete hardening for application under water	4 days	6 days	10 days	16 days
Recoatable:				
Minimum interval	10 hours	24 hours	48 hours	3 days
Maximum interval	2 days	4 days	7 days	10 days

(Rain)water load may cause, during the first days after application, white stains.

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

Application instructions

Mixing ratio	Volume:	Base – hardener 2V59	75:25
	Weight:	Base – hardener 2V59	80:20
Mixing instructions	The components should be blended homogeneously with a mechanical blender.		
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. 1½ hour at 20°C Approx. ½ hour at 30°C	
Application conditions	During application and hardening the temperature of the surface should be above 5°C, to obtain the optimal qualities.		

Usage information

	Airless-spray	Brush/roller
Type of thinner	FGM 631 / WTD 107	FGM 631 / WTD 107
Recommended thinner (depending on application and equipment)	5 – 10 vol. %	0 – 5 vol. %
Nozzle orifice	0.53 – 0.66 mm 0.021 – 0.023 inch	
Nozzle pressure	150 – 200 bar	
Maximum attainable d.f.t.	300 µm	150 µm
Cleaning of tools	Thinner FGM 631 / WTD 107	

Surface conditions

Concrete

Sweep blast to remove old paint layers and the cementskin.
If blasting isn't possible, the concrete can be pre-treated by etching.
Rinse the concrete thoroughly with clean tap-water and let it dry well.
Carry out concrete repairs with epoxy repair mortar.

ACRATON® DOLPHIN epoxy

Product Characteristics

No coating work shall be carried out when the temperature of the surface is less than 3°C above dew point 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 phenomenon. Acraton Dolphin is resistant to chlorinated water (discoloration/whitening of the pigments is possible)

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, when exposed by direct sunlight.

Obtaining “swimming water quality” a lot of chemicals can be used. These chemicals have to be applied in accordance with legislation, but can affect the water balance. In some cases this can result in discolouration. The water Saturation Index shall comply : 0 +/- 0.3 .

Safety description

check safety data sheet

Ventilation guideline

Minimum required quantity of air to comply with:		
	MAC	10 % LEL
Acraton Dolphin	700 m³/L	28 m³/L
Thinner FGM 631	3995 m³/L	160 m³/L
Thinner BFJ 181	2000 m³/L	160 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 5 General guidelines for the application of Acraton plastics

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.