

# zandleven coatings

POLYFINISH<sup>®</sup> H2O 90

polyurethane

A two components, waterborne, high durable polyurethane coating with good weather resistance and colour lightfastness

- High gloss.
- After curing excellent mechanical resistance and elasticity.
- Waterborne

Resistant to water and short contact with organic and inorganic acids and alkalis.

Application as chemical resistant, impact resistant coating for with polyurethaneor epoxy primer pre-treated steel, galvanised steel and aluminium.

 As finishing paint for which high aesthetic properties have been asked in the chemical industry, on offshore platforms, containers etc.

Product information			
Finish	Highgloss ( 90 GU, depending on colour )		
Colour	RAL colours (except Ral 9006 and Ral 9007)		
Mass density	approx. 1.3 kg/L (mixed product, depending on colour)		
Solids content by volume	approx. 47 volume % (mixed product, depending on colour)		
VOC	approx. 68 gr./L (volatile organic compound)		
Recommended film thickness	40 μm d.f.t. per layer		
	80 μm w.f.t. per layer (undiluted) When applying layers above 150 μm w.f.t. there is a risk of blistering.		
Theoretical spreading rate	At 40 μm d.f.t. 11.8 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 n.a.		
	Hardener 2V63 91.5°C		
Dry temperature resistance	120°C, above 60°C there is a risk of yellowing.		
Durability	At least 6 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 50  $\mu m$ Dust dry Transportable Complete hardening Recoatable: Minimum interval

Maximum interval

30°C	20°C	10°C	5°C
½ hour	1 hour	1,5 hour	2 hours
8 hours	16 hours	24 hours	30 hours
2 days	4 days	7 days	10 days
6 hours	10 hours	16 hours	24 hours
7 days	14 days	14 days	1 month

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

Application instructions Mixing ratio	Volume: Weight:	Base – hardener 2V63 Base – hardener 2V63	83.4 : 16.6 (5:1) 85 : 15			
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°C not necessary				
Pot life after mixing	At 10°C at least 10 minutes 10 litre packing: approx. 3 hours at 10°C approx. 2 hours at 20°C approx. 1 hours at 30°C					
Application conditions	During application and curing the temperature should be above 5°C, to obtain maximum resistance against chemical and mechanical influence					
		The surface should remain dry and the temperature of the surface should be at least 3°C above dew point.				
	During application and hardening in closed and small areas it is necessary to refresh the air continually to remove the solvent vapours, this because of curing, health and safety.					
	Brush/roller	A:				
Usage information	Blush/foliei	Airspray	Airless/Airmix-spray			
Type of thinner	Water	Water	Water			
Type of thinner Recommended thinner						
Type of thinner	Water	Water	Water			
Type of thinner Recommended thinner (depending on application	Water	Water	Water DIN-Cup4 45-55" Airless of Airmix application is less suitable because the optimal gloss will not			
Type of thinner Recommended thinner (depending on application and equipment) Nozzle orifice	Water	Water 5 – 15 vol. % 1.5 – 2.0 mm	Water DIN-Cup4 45-55" Airless of Airmix application is less suitable because the optimal gloss will not			
Type of thinner Recommended thinner (depending on application and equipment)	Water	Water 5 – 15 vol. %	Water DIN-Cup4 45-55" Airless of Airmix application is less suitable because the optimal gloss will not			

### Surface conditions

Steel

### New steel:

As primer Acraton HS-U, Monopox Metalcoat ZL 70, Monopox Metalcoat ZL 80, Monopox SF-HB, Monopox ZF-Universal or Acraton HS Premium can be applied.

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 21/2 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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D95

### **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.

Condensation occurring during or immediately after application may result in a matt and an inferior film.

### Colours/Colour stability:

Certain lead-free red and yellow colours may discolour when exposed to chlorine-containing atmosphere. To obtain full opacity, an extra coat may be necessary, especially for certain lead-free colours in red, orange, yellow and green. Slight discolouration may occur at service temperatures above 60°C.

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.

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

First apply a tack layer, then let it evaporate for approx. 20 minutes to apply a flowing layer.

A completely clean surface is mandatory to ensure intercoat adhesion, especially at 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	Minimum required quantity of air to comply with:			
	Polyfinish H2O 90	MAC 120 m³/L	10 % LEL 6 m³/L		
	MAQ Maximum Assessments of Q				

MAC = Maximum Accepted Concentration 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 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.