

# zandleven coatings

POLYFINISH<sup>®</sup> H2O 70 po

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	High gloss ( 70 GU, depending on colour )		
Color	RAL colors (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 micron w.f.t. there is a risk of blistering.		
Theoretical spreading rate	At 40 µm d.f.t. 1	11.8 m²/L	
Practical spreading rate	Depending on se	everal 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°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, temperature $5 - 30^{\circ}$		

(transportation included)



## Drying times

For d.f.t. up to 50 µm 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	At lower temper resistance agair The component	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 nec				
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 influences.			
	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 neces to refresh the air continually to remove the solvent vapours, this becau of curing, health and safety.				
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Usage information	should be at lea During application to refresh the ai of curing, health Brush/roller	st 3°C above dew point. on and hardening in closed and s r continually to remove the solver and safety. Airspray	mall areas it is necessary nt vapours, this because Airless/Airmix-spray		
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## 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  $2\frac{1}{2}$  or derust mechanical until St. 2-3, in accordance with ISO 8501-1:2007.

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°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.

Colors/Color stability:

Certain lead-free red and yellow colors may discolor when exposed to chlorine-containing atmosphere. To obtain full opacity, an extra coat may be necessary, especially for certain lead-free colors in red, orange, yellow and green. Slight discoloration 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.

Ventilation precaution	Minimum required quantity of air to comply with:				
	Polyfinish H2O 90	IOELV(EU) 120 m <sup>3</sup> /ltr	10 % LEL 9 m³/ltr		
	IOELV = Indicative Occupational Exposure Limit Values				

LEL = Lower Explosion Limit Also consult the safety information sheets

### Additional and applicable information (www.zandleven.com)

- General guidelines
- Material Safety Data Sheet
- information curing agents en thinners
- Color surcharge
- General terms and conditions of delivery



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.