

# zandleven coatings

POLYFINISH<sup>®</sup> DTM HS 70-50

polyurethane

A two components, high solid polyurethane primer/coating with good weather resistance and colour retention. Contains modified zinc phosphate.

- Slight dirt attachment and easy to rinse. Easily applicable in thick layers.
- Low-solvent content in accordance with EG regulations of 2007.
- Easy to apply in think layers directly on prepared steel.
- After curing excellent mechanical resistance and elasticity.

#### Application

May be specified as one layer system applied direct to blasted steel. Applicable for C1 / C2 according to the ISO standard 12944.

## **Product information**

Finish	Semi-gloss (50	GU, depending on colour)
Colour	RAL colours	
Mass density	approx. 1.35 kg	g/L (mixed product, depending on colour)
Solids content by volume	approx. 70 volu	ime % (mixed product, depending on colour)
VOC	approx. 290 gr.	/L (volatile organic compound)
Recommended film thickness	80 -120 µm d	f.t. per layer
	114 -171 µm w	.f.t. per layer (undiluted)
Theoretical spreading rate	At 80 µm d.f.t	. 8.8 m²/L
	At 120 µm d.f.t	. 5.8 m²/L
Practical spreading rate	Depending on	several factors like shape of object, profile of surface,
	method of appl	ication, application circumstances and experience.
	A few guiding p	principles are:
	Brush/roller	85-90% of the theoretical spreading rate
	Spraying	50-70% of the theoretical spreading rate
Flashpoint ISO 1523	Base	29°C
	Hardener 2V49	38°C
	Thinner JFG 2	53 28°C
Dry temperature resistance	120°C	
Durability	At least 12 mor	nths, provided that it has been stored in closed
	original packing	g at a dry and cool spot.

### **Drying times**

For d.f.t. up to 100 µm Dust dry Transportable Complete hardening Recoatable: Minimum interval

Maximum interval \*

30°C	20°C	10°C	5°C
1∕₂ hour	1 hour	3 hour	4 hours
10 hours	16 hours	24 hours	48 hours
4 days	7 days	14 days	28 days
8 hours	12 hours	24 hours	40 hours
10 days	14 days	1 month	3 months

\* 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: Weight:	Base – hardener Base – hardener		82,5:17,5 86:14
Mixing instructions	U		ed and applied at temper	
	tightly closed un		sture. Store in a dry plac traces of water in the mi defects	
	resistance again The components	st sagging and wh s should be mixed	r is needed, which gives ich will delay hardening. homogeneously, ention to the side and bo	0
Induction time	At 20°C not nece At 10°C at least	essary		
Pot life after mixing	20 litre packing:	approx.	6 hours at 10°C 3 hours at 20°C 2 hours at 30°C	
Optimal application circumstances	Temperature:1 Humidity :4	15-25°C 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	JFG 253	JFG 253	JFG 253
Recommended thinner (depending on application and equipment)	0 – 15 vol. %	5 – 20 vol. %	0 – 5 vol. %
Nozzle orifice	0.28 – 0.33 mm 0.013 – 0.017 inch	1.5 – 2.0 mm	
Nozzle pressure	130 – 200 bar	3 – 4 bar	
Typical d.f.t.	120 μm	100 μm	80 μm
Cleaning of equipment	Thinner JFG 253		

# Surface conditions

Steel

New steel: Blasted steel substrate, cleanliness: Sa 21/2 acc. ISO 8501-1:2007

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 lower durability 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.

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: 120°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.

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

		MAC	10 % LEL
	Polyfinish DTM HS 70-50	1110 m³/L	59 m³/L
	Thinner JFG 253	3680 m³/L	149 m³/L

MAC = Maximum Accepted Concentration LEL = Lower Explosion Limit Also consult the safety information sheets

Ganzlin

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 steel preservation
- 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.