POLYFINISH® ZL COATING polyurethane

A two components high build polyurethanecoating pigmented with titaniumwhite and inert extenders.

- High abrasion resistant and excellent weather resistance.
- Resistant against water and brief contact with organic and anorganic acids and alkalis.

Application as chemical resistant, abrasion and impact resistant coating floors, silos, viaducts, bridges and other concrete constructions.

Product information

Finish	Semi-gloss (40 GU, depending on colour)
Colour	RAL colours
Mass density	approx. 1.2 kg/L (mixed product, depending on colour)
Solids content by volume	ca. 50 volume % (mixed product, depending on colour)
VOC	approx. 420 gr./L (volatile organic compound)
Recommended film thickness	100-120 micrometer d.f.t. per layer 200-240 micrometer w.f.t. per layer (undiluted)
Theoretical spreading rate	At 100 micrometer d.f.t. 5.0 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 29 ℃ Hardener 2V1 30 ℃ Thinner JFG 253 28 ℃
Durability	At least 12 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 100 µm

	30 ℃	20 ℃	10 ℃	5 ℃
Dust dry	1 hour	1½ hour	2 hours	3 hours
Transportable	8 hours	12 hours	16 hours	24 hours
Complete hardening	3 days	5 days	8 days	12 days
Recoatable:				
Minimum interval	8 hours	12 hours	16 hours	24 hours
Maximum interval*	10days	21 days	2 months	4 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:	Base – hardener 2V1	90:10
	Weight:	Base – hardener 2V1	92:8

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.

Induction time

At 20°C not necessary
At 10°C at least 10 minutes
At 5°C at least 20 minutes

Pot life after mixing

20 litre packing: approx. 16 hours at 10°C
approx. 6 hours at 20°C
approx. 4 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.

Application and hardening at lower temperatures (down to 0°C) is possible, the hardening though will then take considerable more time and complete resistance will be achieve much later.

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 spaces it is necessary to refresh the air continually to remove the solvent vapours, this because of curing, health and safety.

Usage information

	Airless-spray	Airspray	Brush/roller
Type of thinner	JFG 253	JFG 253	JFG 253
Recommended thinner (depending on application and equipment)	0 – 10 vol. %	5 – 10 vol. %	0 – 5 vol. %
Nozzle orifice	0.33 – 0.38 mm 0.013 – 0.015 inch	1.5 – 2.5 mm	
Nozzle pressure	130 – 160 bar	3 – 4 bar	
Maximum attainable d.f.t.			
Vertical	100 µm	80 µm	80 µm
Horizontal	150 µm	100 µm	120 µm
Cleaning of tools	Thinner JFG 253		

Surface conditions

Concrete and sand cement surfaces must be sufficiently dry.

Impregnate strong absorbing surfaces with diluted Polyfinish ZL coating or Acraton sealer.

Execute repairs with epoxy mortar .

POLYFINISH® ZL COATING polyurethane

Product Characteristics

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.

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

Ventilation rules

Minimum required quantity of air to comply with:		
	MAC	10 % LEL
Polyfinish ZL coating	1680 m³/L	85 m³/L
Thinner JFG 253	3680 m³/L	149 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 3 Persistency list for Monopox HB systems
A 4 General guidelines for steelpreservation
A 5 General guidelines for the application of Acraton plastics
A 6 Pretreatment of construction steel