POLYFINISH® ZA-95

polyurethane

A two-component polyurethane coating with good weather resistance and colour stability.

- High gloss.
- Suitable for painting of polyester ships, tanks etc.
- After curing excellent mechanical resistance.
- Resistant against water and brief contact with organic and inorganic acids and alkalises.

Application as chemical resistant, impact resistant coating for with polyurethane-or epoxy primer pre-treated steel and hot-dip galvanised steel.
- 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 (95 GU, depending on colour)
Colour	RAL colours
Mass density	approx. 1.0 kg/L (mixed product, depending on colour)
Solids content by volume	ca. 50 volume % (mixed product, depending on colour)
VOC	approx. 450 gr./L (volatile organic compound)
Recommended film thickness	40 micrometer d.f.t. per layer 80 micrometer w.f.t. per layer (undiluted)
Theoretical spreading rate	At 40 micrometer d.f.t. 12.5 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 23°C Hardener 2V56 30°C Thinner BFJ 181 42°C Thinner JFG 253 28°C
Dry temperature resistance	120°C
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 50 µm

	30°C	20°C	10°C	5°C	0°C
Dust dry	½ hour	1 hour	1½ hour	2 hours	4 hours
Transportable	8 hours	16 hours	24 hours	30 hours	48 hours
Complete hardening	2 days	4 days	7 days	10 days	16 days
Recoatable:					
Minimum interval	6 hours	10 hours	16 hours	24 hours	48 hours
Maximum interval	2 days	4 days	7 days	7 days	7 days

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

Application instructions

Mixing ratio	Volume:	Base – hardener 2V56	75:25
	Weight:	Base – hardener 2V56	75:25

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
At 10°C at least 10 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

Optimal application circumstances

Temperature : 15-25°C
Humidity : 40-75%

Technical and esthetical properties can change when the product has been applied under different conditions.

Usage information

	Airless/Airmix-spray	Airspray
Type of thinner	BFJ 181 or JFG 253	BFJ 181 or JFG 253
Recommended thinner (depending on application and equipment)	DIN-Cup4 20-25"	5 – 10 vol. %
	Before spraying always measure viscosity with DIN-Cup4	
	First apply a thin layer and after approximately 20 minutes a full layer	
Nozzle orifice	0.23 – 0.33 mm 0.009 – 0.013 inch	1.5 – 2.0 mm
Nozzle pressure	80 – 160 bar	2 – 3 bar
Maximum attainable d.f.t.	50 µm	50 µm
Cleaning of tools	Thinner BFJ 181 or JFG 253	

Surface conditions

Steel

New steel:
As primer Monopox SF-HB, Monopox ZF-Universal, Monopox Metalcoat ZL 70 Monopox Metalcoat ZL 80, Monopox HB coating, Acraton HS-U, Monopox Express primer or Polyfinish MU-DL. can be applied, this depending on the advice of the manufacturer.

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 2½ or derust mechanical until St. 2-3.

Apply the advised 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.

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.

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 air to comply with:

	MAC	10 % LEL
Polyfinish ZA-95	1510 m³/L	66 m³/L
Thinner BFJ 181	1970 m³/L	158 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 4 General guidelines for steelpreservation
A 6 Pretreatment of construction steel