

**An eggshell gloss high solids two component polyurethane coating for the protection and finishing of metal, concrete and cement surfaces.**

Anti-slip coating for durable protection and aesthetic finishing of internal and external concrete objects in climatologic circumstances such as walls floors and structural works. Good colourfastness, chemical resistance and mechanical strength. Good filling properties and excellent application by brush, roller and spray devices. Also applicable as a finishing coat in epoxy and polyurethane coating systems on ferrous and non ferrous metals.

**PROPERTIES**

Gloss	Eggshell Gloss
Gloss disclaimer	The final gloss level is partly determined by the structure of the substrate and the applied layer thickness and may in some cases deviate from the above values.
Colour	Standard colours (Ral, NCS, Fleetowner)
Volume solids	ca. 50 vol.% (mixed product, tested acc to ISO 3233)
VOC	≤ 460 g/l
Density	At 20 °C ± 1.3 kg/l (mixed product)
Dry film thickness	Standard: 60-100 µm (depends on application process)
Theoretical coverage	At a dry film thickness of 60 µm: 9.3 m <sup>2</sup> /ltr.
Practical coverage	The performance in practice depends on various circumstances. As a guideline for airless spraying, for large dimensions: 70% of the theoretical coverage. For small dimensions: 50% of the theoretical coverage.
Cover	To achieve best opacity of topcoat some colours need a special shade of primer. Please ask our technical department for advice.
Packaging	20 litre cans and 200 litre drums. Thinner in 25 litre cans and 200 litre drums.
Shelf life	In original well shut packaging 12 months, stored inside at temperatures between 5 °C and 40 °C.
Heat resistance	Maximum 120 °C (dry load)
Activator	903V (optional 973V)
Thinner	PU5801

**PRE-TREATMENT**

Untreated steel	The surface needs to be pretreated according ISO12944 part 4 § 6.2.3. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet) and a high pressure spraying pistol. Grit blasting to purity degree Sa 2½ in accordance with ISO 8501-1. After blasting remove all dust from the entire surface with compressed air which is free of moisture and grease. Apply first coating layer within 6 hours. In case the final coating layer is applied on the construction site, extra precautions need to be taken.
Hot dip galvanized	The surface needs to be pretreated according ISO12944 part 4 §6.2.3.4.1(sweep blast, with inert grit). See also NEN5254 for Duplex systems. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet). Lightly blast the entire zinc surface with an inert blasting agent (grain size: 0.3 - 0.5 mm, blasting pressure: 2.0 - 2.5 bar, nozzle opening: 6 mm minimum). After blasting, the entire surface must have a uniform flat appearance. Depending on the zinc layer thickness, in accordance with NEN5254, max. 5 - 10 µm of zinc can be removed. After blasting remove all dust from the entire surface with compressed air which is free of moisture and grease. Apply first coating layer within 2 hours.

## WORKING PROCESS

Mixture	350 Poluran Bodycoat, 4 parts by volume. Standard: Activator 903V, 1 part by volume. Accelerated curing: Activator 973V, 1 part by volume.
Mixing instructions	Mix base component and activator intensively, preferably using a mechanical mixing device. The temperature of the mixed product should at least be 10 °C during application.
Potlife	At 20 °C 4 hours (mixed product)
Thinning	The paint can be applied with various spray equipment The necessary amount of PU5801 depends on used equipment, application method and temperature of the mixed product.
Application conditions	The temperature should be at least 10 °C to obtain good drying behaviour and curing. The temperature of the substrate should be at least 3 °C above dew point. Keep application area well ventilated during application and drying, in order to reduce evaporated solvents. This is necessary to acquire good drying properties and for the good of the applicators' health.
Application method	Preferably by means of airless or airmix spray equipment. When using brushes, a different film thickness and possibly inferior flow will be achieved.

## PROCESSING DATA

	<b>Airless spray</b>	<b>Airmix</b>	<b>Brush-roller</b>	<b>Airspray</b>
Thinner	PU5801	PU5801	S5102	PU5801
Amount	0-10 vol.%	0-10 vol.%	0-5 vol.%	10-20 vol.%
Nozzle	min. 0.015 inch	min. 0.015 inch	n.a.	min. 2.0 mm
Flow pressure	min. 140 bar	min. 70 bar	n.a.	min 3-4 bar
Dry film thickness	60-100 µm	60-100 µm	60 µm	60-100 µm

Cleaning tools: Immediately after application using thinner PU5801.

## DRYING TIMES

	<b>10 °C</b>	<b>20 °C</b>
Dust free	2 hours	1 hour
Manageable	12 hours	6 hours
Recoatable	16 hours	8 hours

Dry times with Activator 903V at a standard dry film thickness of 80 µm. (method: BYK Drying recorder)

The maximum interval is unlimited, provided that the surface is clean and free of grease and/or oil. At a higher film thickness longer drying time should be taken in account. During drying and curing the relative humidity should remain under 80%. Furthermore, any contact with moisture must be avoided during this period.

## ENVIRONMENT AND HEALTH

Labelling	In accordance with EU directions 67/548/EEG and in accordance with directives on hazardous materials. Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.
UN	1263

## TOUCH UP

Touching up of damages or untreated parts at the construction site. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet). Remove the rust from all mechanical damage caused by transport and mounting, untreated welding strips and welding spots and burns with rotating steel wire brushes, sanding discs or steel wire brushes and coarse sandpaper to purity degree St3, in accordance with ISO 8501-1. Smooth the transition of cleansed parts to parts with intact coats of paint by sanding and scraping. After sanding, remove all dust from the entire surface with compressed air which is free of moisture and grease. Then touch up the object with the entire paint system, as described in this paint advice. Touch up light surface damages only with the product of the top coat, as described in the paint advice.