

DESCRIPTION

Poltix Gelcoat W-PS is a gelcoat recommended for sanitary applications based on a pre-accelerated unsaturated isophthalic and neopentylglycol polyester resins, pigmented with high quality pigments.

PRINCIPAL CHARACTERISTICS

- Thixotropic, reduces sagging on vertical surfaces;
- Pre-accelerated;
- Rapid curing;
- Excellent scratch and impact resistance;
- Semi flexible reducing risk of crack formation.
- Specially recommended for sanitary applications such as sinks, kitchen counters, etc.
- Excellent hiding power;
- Resistant to various chemicals, high resistance to osmosis;
- Excellent resistance to sudden changes in temperature (thermo shock).

COLOURS AND GLOSS

9 colours and transparent according to shade card, see additional information

BASIS PROPERTIES (AT 20 °C AND 50% R.H.)

Density	:	approx. 1,1 to 1,3 g/cm ³ , depending on colour and type
Solid content	:	approx. 100 % (volume)
Recommended d.f.t.	:	350 - 450 µm (dry), depending on application
Full cure after	:	2 hours
Application second layer gelcoat after	:	min. 3 hours, see additional information max. 24 hours, provided free from any contamination
Laminate to be applied after	:	min. 3 hours, see additional information max. 24 hours, provided free from any contamination
H.D.T. (DIN53458)	:	approx. 90 °C
Shelf life	:	separate components, stored cool and dry in original packaging, at least 3 months
Flashpoint (DIN53213)	:	base component 29 °C hardener component 52 °C (MEK peroxide)

SPREADING RATE

At 350 µm (dry film)	:	approx. 2,4 m ² /kg
At 400 µm (dry film)	:	approx. 2,1 m ² /kg
At 450 µm (dry film)	:	approx. 1.9 m ² /kg

The practical spreading rate depends on a number of variables, such as: shape and size of object to be painted, the condition and profile of the substrate, the method of application, environmental conditions and skill of labour.

SUBSTRATE CONDITION AND TEMPERATURE

Mould : in good condition, clean and dry, free from any contamination, loose particles and other foreign matter; pre-treated with a suitable mould release agent;

During application and curing a minimum temperature of 15 °C is allowed. The temperature of the substrate should be minimum 3 °C above dew point.

INSTRUCTIONS FOR USE

Before use mix base and hardener thoroughly.

Mixing ratio : 100 base : 2 hardener (parts by weight)

Do not prepare more material than can be applied within the pot life of the

mixture.

Induction time : None
 Pot life : airless version
 5 minutes at 25 °C
 10 minutes at 20 °C
 15 minutes at 15 °C
 The pot life depends also on colour.

Application with :

	Only airless version	
	Airless spray, external mixing	Airless spray, internal mixing
Type of thinner	n.a.	n.a.
% of thinner	n.a.	n.a.
Nozzle orifice	0,016 inch	0,023 inch
Nozzle pressure	120 bar	120 bar
Cleaning with	Double Coat Degreaser, Ethylacetate or Acetone	

ADDITIONAL INFORMATION

- Recoating Poltix Gelcoat W-PS

	15 °C	20 °C	25 °C
Minimum, with Poltix Gelcoat W-PS	4 hours	3 hours	2 hours
Minimum, with laminate	4 hours	3 hours	2 hours
Maximum, with Poltix Gelcoat W-PS	24 hours	24 hours	18 hours
Maximum, with laminate	24 hours	24 hours	18 hours

The actual minimum and maximum interval depends also on the colour.

- Recommended filmthickness

The recommended filmthickness in this datasheet is for each separate layer and depends on application method. We recommend to apply two coats. This will prevent holidays and areas with too low film thickness. Brush marks, runs and sags and areas with too low thickness might be visible in the product after release from mould. Areas with too low thickness may yellow excessively when exposed to direct sunlight.

- Application of Poltix Gelcoat W-PS

- Poltix Gelcoat W-PS is only recommended for airless application.
- Apply Poltix Gelcoat M-EB evenly, without runs or sags, preferably in two coats.
- A too low temperature will give a long gel time. The polymerisation will be incomplete. A too high temperature will shorten gel time. A too high application temperature will give a too rapid curing and will cause air entrapment.

- Additional properties resin (properties of Poltix Gelcoat W-PS depend on colour):

Property	Value	Unit	Method
Barcol 934-1 hardness	37-41		DIN EN 59
Tensile strength	45	MPa	DIN EN ISO 527-2
Elongation at break	1,5	%	DIN EN ISO 527-2
Waterabsorption (7 days)	0,21	%	DIN EN ISO 62

- Pre-accelerated

Poltix Gelcoat W-PS is pre-accelerated with a combination of special accelerators and promoters.

- Available colours of Poltix Gelcoat W-PS
Poltix Gelcoat W-PS is available in a wide range of colours. We advise to check deep shades on blushing when exposed to changing exposure temperatures (thermo shock).
- Chemical resistance
The chemical resistance depends on colour. When in doubt, please contact our sales department.
- Hardener
As hardener/catalyst we recommend Butanox M50 (Akzo Nobel) or Peroxan ME50L (Pergan). After mixing the base component with the harder the temperature of the mixture will increase rapidly due to an exothermic reaction. Do not prepare more material than can be applied within the pot life of the mixture.

SAFETY INFORMATION

This product contains solvents. Take all necessary safety measurements when using this product and arrange proper ventilation and safety equipment for all personnel. For details on safety and health see our material safety data sheet.

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Disclaimer

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