Technical data sheet

PROTECTION MADE EASY

Polygloss

Description and destination of the product

Polygloss paints are one-pack moisture curing finishing coats, based on an aliphatic polyurethane. Thanks to this combination **Polygloss** has the following properties:

- outdoor resistance with good colour and gloss retention
- high resistance to chemicals
- high abrasion resistance
- excellent dirt repellent properties
- high impact resistance.

The combination of these properties makes **Polygloss** an esthetical finishing coat of high quality. **Polygloss** can be applied as finishing coat on ***Polymicace, Monoseal, Polysilco*** and on two-pack polyurethane or epoxy systems.

Type of binder

Moisture curing aliphatic polyisocyanate prepolymers.

Type of pigment

Light-stable organic and/or anorganic pigments, depending on the colour.

Colour

Available colours in stock: RAL 9005 – 6011 and white.
Other colours on demand for quantities > 300 L.

Gloss

High gloss (minimum 90%). 60°Gn (Gardner)

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Technical data

- **Density**: 1 – 1.4 at 20°C (*) (*)
- **Solids content:** 58 – 65 % in weight
  52 – 56 % in volume
- **Overcoating time:** At 0°C: 30 hours
  (40 micron) At 5°C: 24 hours
- **Viscosity** 80 – 90" CF4 at 20°C (*) (*)
- Indicative drying times (R.H. 75%) for 40 micron layer thickness:

	Dustdry	Tackfree	Dry	Full Resistance
10°C	4 hours	10 hours	16 hours	7 days
20°C	2 hours	5 hours	10 hours	4 days
30°C	1 hour	3 hours	6 hours	3 days

- **Theoretical yield:** 10.5 – 14 m²/L (*)
  The practical yield can largely be influenced by the roughness and porosity of the substrate, the applied layer thickness or the losses by airless application.
  (*) depending on the colour

Surface preparation

- When the waiting time between the application of the primer or sealer coat and **Polygloss** is too long or in extreme polluted environments, the surface that has to be painted can get polluted.
- All contaminations that hamper the good adhesion of **Polygloss** should be removed with appropriate means.
- Surfaces that are polluted with grease or oil should be washed down with solvents, alkaline solutions or emulsifier.
- Salts or other water dilutable contaminations should be removed with water and brush or jet.
- After the surface is cleaned and dry, dust it.

Use

By brush, pneumatic or airless gun, roller:

	% Dilution	Thinner	Pressure (bar)	Nozzle
Brush	5 - 15 %	***Thinner 1***	-	-
Roller	5 - 15 %	***Thinner 1***	-	-
Pneumatic gun	0 – 20 %	***Solvatane***	3-4 bar	1.2-1.6 mm
Airless gun	0 – 10 %	***Solvatane***	120-180 bar	0.011-0.015 inch

Remark
If **Polygloss** aluminium (RAL 9006) is applied for outdoor paintwork, we advise to apply a transparent topcoat such as ***Polygloss colourless*** or ***Mixtane colourless*** in order to avoid oxidation of the aluminium parts. Be careful with the spraying of large surfaces. The spraying technique should be adjusted to obtain a smooth aluminium aspect.

Polygloss can also be applied with a short-haired mohair roller coater. Special attention should be paid to the layer thickness and de-aeration in order to avoid blisters and/or craters. It is recommended to dilute the paint to the advisable viscosity with ***Additive for Polygloss*** (5-15 %).

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Indicative recoatable times for 40 microns dry layer thickness:

	Minimum	Maximum
10°C	16 hours	5 days
20°C	12 hours	3 days
30°C	8 hours	2 days

If the maximum time has been exceeded not only a thorough cleaning but also a roughening up is necessary.
Clean the tools with ***Solvatane*** or ***Thinner 1***.
Recommended layer thickness: 40 microns
Maximum dry layer thickness: 60 microns.

Application conditions

Polygloss can be applied at temperatures between 0°C and 35°C and air humidity between 30 and 98 %. The temperature of the surface must be 3°C higher than dew point.

Storage stability

Minimum 6 months in the unopened original packing, stored at temperatures between -20°C and +40°C. Keep the cans well closed in order to avoid polymerisation by humidity contact.

Safety measure

For detailed information about safety measures, personal protection and transport data of this product, we refer to the safety data sheet.

The last update of our technical data sheets is always available at our website: ***www.libertpaints.be***

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