Technical data sheet

PROTECTION MADE EASY

Polymicace

Description and destination of the product

Polymicace is a moisture curing one-pack polyurethane combined with micaceous iron oxides.
Due to the special lamellar structure of the pigmentation a very tight paint film is obtained with excellent water and corrosion resistance. The chemical inert pigmentation and the polyurethane binder provide a high chemical resistance.
Polymicace can be applied as an intermediate and/or topcoat in one-pack polyurethane systems.

Type of binder

Moisture curing aromatic polyisocyanate prepolymers.

Type of pigment

Micaceous iron oxides, aluminium and magnesium silicates.

Colour

Grey.

Gloss

Mat.

Technical data

Density:	1.52 (± 0.05) g/cm^3 at 20°C
Solids content:	79 (± 2) % in weight
	66 (± 2) % in volume
Overcoating time:	At 0°C: 24 hours
(80 micron)	At 5°C: 16 hours
Viscosity:	105 ± 5 KU at 20°C
VOC:	< 300 g/L (not diluted)
	< 420 g/L (15 % diluted)

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- Indicative drying times (R.H. 75%) for 80 micron layer thickness:

	Dustdry	Tackfree	Dry
10°C	2.5 hours	4 hours	6 hours
20°C	1 hour	2.5 hours	4 hours
30°C	40 minutes	1.5 hour	3 hours

- Theoretical yield: 7.5 m^2/L for 80 micron
  6.0 m^2/L for 100 micron
  4.0 m^2/L for 150 micron

  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.

Surface preparation

When the waiting time between the successive coats is abnormally prolonged or in extremely polluted areas, the primed surface can become contaminated. All contamination that hampers the adhesion of the paint should be removed by appropriate means.
Surfaces contaminated with oil and grease should be washed down with solvent, alkaline solutions or emulsifier.
Salt deposits or other water-soluble contaminations should be removed with water and brush, water under high pressure or steam. Possible white zinc rust on zinc dust primers should be removed with water and rigid nylon brush.

Use

Polymicace can be applied by brush, roller, pneumatic or airless pistol.

	% Dilution	Thinner	Pressure (bar)	Nozzle
Brush	5 – 10 %	*Thinner 1*	-	-
Roller	5 – 10 %	*Thinner 1*	-	-
Pneumatic gun	15 %	*Solvatane*	3 à 5	1.2 à 1.5 mm
Airless gun	5 – 15 %	*Solvatane*	100 to 300	0.017" to 0.024"

At extreme temperatures, air humidity circumstances or air movement, *Thinner 1* can be preferred when applying by pistol.
It is always recommended to treat corners, sharp edges, bolts and nuts before applying a uniform coat.

Indicative recoatable times (R.H. 75 %) for 80 micron dry layer thickness :

	Minimum	Maximum
10°C	24 hours	up to 3 months
20°C	6 hours	up to 1 month
30°C	4 hours	up to 1 week

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At longer intervals a good cleaning is necessary to avoid intermediate coat contamination which could disturb the adherence of the next coat. The recommended layer thickness is 60 to 100 microns, depending on the system.
The material can be cleaned with *Solvatane* or *Thinner 1*. The maximum obtainable layer thickness is 120-160 micron dry (inclusive over-layer thickness).

Application conditions

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

Storage stability

Minimum 2 years in the original, unopened package stored in a dry environment at temperatures between -20°C and +40°C.

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

Disclaimer
The information given in this technical data sheet is only a general product description, based on our experiences and tests and therefore does not represent a specific practical case. Consequently Libert Paints doesn't guarantee the functionality or result and takes no responsibility in this respect.
We advise our clients to test the applicability of the product to the nature and the state of the surfaces and to carry out the necessary representative tests in case of doubt. Please contact our R&D department as the occasion arises.
Attention: our clients should verify whether the present technical data sheet hasn't been replaced by a more recent version.

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