CARMEL B.K. ENG LTD

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DATA SHEET

6/21/2021

Primer Plast

Description and destination of the product

Primer Plast is a two-component acrylic polyurethane paint with an excellent adhesion wood, MDF, OSB plates, plastics (e.g. hard PVC, ABS, polyester….) and mineral surfaces (walls, floors).
Primer Plast is **free of lead and chrome**.

Type of pigment

outdoor resistant pigments (lead-free). **RoHS, REACH standard**

Colour :

White, Gray, Black

Gloss:

20 (± 5) Gardner 60° (depending on the layer thickness and surface).

Technical data

- **Density:** 1.40 ± 0.05 (*)
- **Solids content** 60 (± 2) % in volume (*)
  74 (± 2) % in weight (*)
- **Potlife:** ± 5 hours at 20°C (*)

- **Mixing ratio** 10:1 in volume
  8 : 1 in weight

Mixing errors result in deviating properties and differences in gloss.
Therefore we advise to mix the complete contents of base paint and hardener.

- Indicative drying times (R.H. 75%) for 60 micron layer thickness:

	Dustdry	Tackfree	Dry
10°C	40 minutes	5 hours	1 day
20°C	30 minutes	3 hours	12 hours
30°C	30 minutes	3 hours	8 hours

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Theoretical yield: ± 10 m²/L at 60 microns
± 6 m²/l at 100 microns

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

An appropriate surface preparation is essential to obtain an optimal adhesion and good protection. Each type of surface requires an appropriate preparation.
The surface to be painted must be free of grease, oil, water, dust or other impurities that hamper a good adhesion.
Old epoxy or polyurethane surfaces must first be roughened up with sandpaper or by slight sweep blasting.
In order to avoid problems of interlayer adherence, it is recommended to apply the following coat within 3 days. If this isn't possible, the previous coat has to be roughened up and cleaned before being painted.

Use

Mix base and **Hardener**
(mixing ratio: 8/1 in volume – 10/1 in weight).
Mixing errors result in deviating properties and differences in gloss. Therefore we advise to mix the complete contents of base paint and hardener.
Primer Plast can be applied by brush, roller, pneumatic or airless gun.

	% Dilution	Thinner	Pressure (bar)	Nozzle
Brush Roller	0-5 %	**Thinner 10**	-	-
spray gun	40-60%		-	-
Airless gun	5-20 %		3-5 bar	1.3-1.8 mm
	0-10 %		100-300 bar	

At extreme temperatures, humidity circumstances or air stream, **Thinner 10** is recommended for airless gun application. It is always recommended to brush corners, sharp edges, bolts or nuts before applying a flat coat.
Indicative recoatable times (R.H. 75 %) for 60 microns dry layer thickness:

	Minimum	Maximum
10°C	1 hour	4 days
20°C	30 minutes	3 days
30°C	30 minutes	3 days

At longer painting intervals, a good cleaning and roughening up is necessary in order to avoid that interlayer contamination would hamper the adhesion of the next layer. The recommended layer thickness is 60 to 80 microns, depending on the system.

Application conditions

The relative humidity should be no higher than 85 % while, during application, the temperature of the surface must be at least 8°C and 3°C higher than dew point. The relative humidity must always be measured in the direct proximity of the object to be painted. The temperature must be measured in the direct proximity of the object but also on the object itself.

Storage stability

For the base paint : maximum 2 years in the original, unopened packing, stored in a dry environment at temperatures between -10°C up to +40°C.
for the hardener : maximum 12months in the original, unopened packing, stored in a dry environment at temperatures between -10°C up to +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.

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.