

# FREOLUX

## Paint KL1022

- Solvent-based alkyd resins
- Air drying
- Inside and outside application
- Industrial's application
- Weather-resistance
- Small yellowness
- Accelerated drying is possible

<b>Technical / Physical Data</b>	<b>Resin/ binder</b>	medium oillength, low yellowing alkyd resins
	<b>Colour</b>	acc. to RAL 840 HR other colour shades on request
	<b>Gloss value</b> DIN 67530 and DIN EN ISO 2813	KL1022G = glossy > 70 geometry 20° KL1022H = satin mat 30 to 50 geometry 60° KL1022Z = acc. to customer's requirement
	<b>Original viscosity</b> DIN 53211*	120 to 200 Sek. / 4 mm cup
	<b>Thinner</b>	EFD-Thinner 400011 or 400432
	<b>Density</b> calculated	1,1 g / ml + / - 0,1
	<b>Solid content</b> calculated	58 % + / - 2
	<b>Solid content in volume</b> calculated	400 ml / kg + / - 20
	<b>Consumption</b> calculated in original viscosity, without application loss	90 to 110 m <sup>2</sup> / kg dry film thickness 40 µm see „Special remarks“
	<b>Spreading rate</b> in original viscosity, without application loss	9 to 11 m <sup>2</sup> / kg dry film thickness 40 µm see „Special remarks“

**Storability**      Approx. 18 month in original packings at an ambient temperature of 5 to 25 °C, in case the original packings are tightly closed. Opened packing must be used very shortly. The minimum storage stability of each batch is mentioned on the product label. A storage time beyond the mentioned date doesn't necessarily mean that the material is unusable. In this case a check of the qualities which are important for the respective usage is essential due to quality guaranty reasons.

## Processing and application

### Application

Stir up before the use carefully (e.g. with high-speed mixer).

spraying-high-pressure:	after viscosity adjustment to 25 to 30 sec. nozzle: 1,2 to 1,5 mm spraying pressure: 4 bar
spraying-airless:	after viscosity adjustment to 70 to 110 sec. nozzle: 0,11 inch / 0,28 mm to 0,013 inch / 0,33 mm
spraying-low-pressure:	after viscosity adjustment to 25 to 30 sec. nozzle: 1,2 to 1,5 mm spraying pressure: 4 bar
by roller/ brush:	in original viscosity For roller and brush application add. 0,3 to 0,5 % by weight EFD-deaeration agent 300807 in case of bubble creation.

### Substrates

steel

### Pretreatment

The substrate must be free of materials which prevent adhesion, e.g. oil, grease, dust and surfactant. According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or / and mechanical (e.g. shot blasting) pretreatment.

### Proposal for a coating system

substrate:	steel	
primer:	FREOLUX-Primer	KL1712
top coat:	FREOLUX-Paint	KL1022

### Application temperature

above 10 °C

### Drying

air drying at 20°C

dust dry:	after 2 ½ h	(degree of drying 1/ DIN 53150)
dry to touch:	after 15 h	(degree of drying 4/ DIN 53150)
complete dry:	after 20 days	(swinging beam hardness/ ISO 1522)
oven drying:	to 70 °C possible	(object temperature)

### Repair coating

up to an ageing of 3 weeks:	with the same system, no sanding, use only EFD-Verdünnung 400011 as cleaning agent
after an ageing of 3 weeks:	after slight sanding with FREOLUX-paint systems, sanding

### Cleaning of working equipment

EFD-Thinner 400500

### Advise for safety protection and protection of health

The usual precautionary measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

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**Special remarks****Test condition**

\*Indication of the delivery viscosity according to DIN 53211:

DIN 53211 was withdrawn in October 1996.

On request the value is available according to DIN EN ISO 2431.

The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on KL1022GRA910, pure white RAL 9010, glossy adjustment. All information is based on a standard climate 20/65 DIN 50014. For the calculation of the practical consumption loss additions have to be considered. Indications to this are the practical experience and advices given in DIN 53220.

All information are based on our product knowledge and experience. To the application we have no direct influence. For further information please don't hesitate to contact us. The information mentioned herein are reference values and are not given as specification.