

Technical Data Sheet

1K Paint 5450



Quick-drying paint for colored marking paints on powder coatings

Field of application

Specially suited for painting the shoulders of powder-coated steel cylinders

Properties

- Very good adhesion to metallic and many other powder coating substrates
- Heat-resistant up to 60°C (dry heat)

Material description

Basis	Polymer blend
Color shades	RAL 1018 GL, RAL 3000 GL, RAL 3009 GL, RAL 5010 GL, RAL 5012 GL, RAL 6001 GL, RAL 6018 GL, RAL 7037 GL, RAL 8008 GL, RAL 9005 GL, RAL 9010 GL
Gloss grade	Gloss, > 80 GU/60° (in accordance with DIN EN ISO 2813)
Density	0.95–1.30 g/cm ³ ¹⁾ (in accordance with DIN EN ISO 2811)
Theoretical yield	270–390 m ² /kg ¹⁾ (at 1 µm dry film thickness)
Solids content	37–54 wt % ¹⁾
Delivery viscosity at 20°C	80–100 sec./DIN 4 mm
Stability	100–150 µm (wet film)
Flash point	> 23°C
Labeling	See current safety data sheet.

¹⁾ Dependent on the color shade

Material description

Accelerated weathering QUV-B/SE	After 96 hours, the residual gloss \geq 50% of initial gloss (in accordance with DIN EN ISO 16474-3)
Accelerated weathering xenon arc fading lamp test	After 1,000 hours, the residual gloss \geq 50% of initial gloss (in accordance with DIN EN ISO 16474-2)

Coating recommendation

Substrates ²⁾	Prime coat	Intermediate coat	Top coat
Steel	1K Adhesive Primer 5408 30–40 μ m	n/a	1K Paint 5450 40–60 μ m
Galvanized steel		For top coats in vibrant color shades (see Use), an intermediate coating in white (approx. 40 μ m) with 5450–9010 is required.	
Aluminum	Powder coatings		
Powder coated substrates			

²⁾ The substrate must generally be free of grease, oils, separating and drawing agents, as well as dirt and corrosion products including impurities.

Use

Stir the material homogeneously before application.

Compatibility Can only be combined with the thinners and prime coats specified in this technical data sheet.

Application temperature \geq 10°C

Thinning Universal Thinner 5117.
Distribute homogeneously while stirring.

Humidity < 75% relative humidity

Application method

Application method By means of air spraying, roller or brush

Application of vibrant color shades Vibrant color shades, especially in the yellow, orange, red, magenta and yellow-green range (see the affected RAL Classic color shades: RAL 1018, RAL 3000) have a low hiding power. For these color shades, we recommend applying an intermediate coating in white (approx. 40 μ m) with 5450–9010.

Drying

Air drying (at + 20°C, 65% relative humidity) Dust-dry after approx. 20 minutes, non-sticky after approx. 45 minutes, recoatable after approx. 1 hour, fully cured after approx. 8 hours. Fully hardened after 24 hours.
Allow longer drying times when temperatures are lower and/or humidity is higher!

Spray data

Method	Nozzle	Pressure	Application viscosity ³⁾
Air spraying	1.2–1.5 mm	3–4 bar	25–35 sec.

³⁾ Measured in a DIN 4 mm flow cup at 20°C

Container sizes

10 kg

Shelf life

24 months after receipt of goods.

Store in a sealed container in a dry place and at room temperature (at most 25°C). Protect from heat sources and direct sunlight. Always keep the containers tightly sealed. Protect contents from drying out. Dried paint residues and any surface-dried skin are insoluble in the paint and can only be removed by straining.

Minimum shelf life

Refer to label

Remark

This technical data sheet is based on extensive development work and years of practical experience. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

Upon publication of a new version of this technical data sheet as a result of new technical developments, all of the information provided above becomes invalid. You can obtain the latest version from your Brillux consultant or at www.brillux-industrielack.de, version 11, as required.

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