Synthetic Resin Paint

5460 gloss
5461 silk gloss
5462 silk matt

Synthetic resin spray paint with good filling power for use indoors and outdoors

Field of application

Optimal for use on construction and agriculture machinery, garage doors, commercial vehicles as well as doors and door/window frames.

Properties

- Good weathering resistance
- Good color fastness
- Good gloss retention
- Short-term resistance to lubricants, drilling oil and diesel fuel
- Good mechanical values
- High covering capacity, thus high yield
- If no special corrosion protection is required, the material can also be used as a single layer on steel

Material description

Basis	Oxidative drying, medium-oil alkyd resin
Color shades	All common color systems
Gloss grade	5460 gloss,> 80 GU/60° 5461 silk gloss, 40–60 GU/60° 5462 silk matt, 20–40 GU/60° (in accordance with DIN EN ISO 2813)
Density	0.93–1.49 g/cm³ [1)] (in accordance with DIN EN ISO 2811)
Theoretical yield	Approx. 356–416 m²/kg [1)] (at 1 µm dry layer)
Solids content	42–67 wt %[1)]
Delivery viscosity at 20°C	80–100 sec./DIN 4 mm
Stability	150–200 µm (wet film)

[1)] depending on the color shade

Flash point	> 23°C

Material description

Labeling See current safety data sheet.

Accelerated weathering QUV-B/SE After 336 hours, the residual gloss ≥ 50% of initial gloss (in accordance with DIN EN ISO 16474-3)

Accelerated weathering Xenon After 1,000 hours, the residual gloss ≥ 80% of initial gloss (in accordance with DIN EN ISO 16474-2)

Coating recommendation

Substrates[2)]	Prime coat	Intermediate coat	Top coat
Steel Preferably sand-blasted (degree of purity min. SA 2 ½ in accordance with DIN EN ISO 12944, part 4) **Cast iron** **Non-ferrous metals**	Synthetic Resin Primer[3)] 5200 40–60 µm	If necessary, a second layer can be applied with the aforementioned primers. For top coats in intense color shades (see Use), an intermediate coating in color shade RAL 9010 (approx. 40 µm) with 5461–9010 is required.	Synthetic Resin Paint 5460, 5461, 5462 30–50 µm
	Synthetic Resin Dip Primer[3)] 5201 20–30 µm		
	Epoxy-Ester Primer 5206 40–60 µm		

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

3) Not suitable for galvanized substrates

Use

Stir the material until homogeneous before application.

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

Application temperature 15–25°C

Thinning Spray Thinner 5121,
Synthetic Resin Thinner 5144.
Stir the material until homogeneous before application

Humidity 40–70% relative humidity

Application method

Application method Airless spraying, air spraying,
air-mix spraying, if necessary, rolling and brushing

Drying

Air drying (at + 20°C, 65% relative humidity)

Dust dry after approx. 1 hour, non-sticky after approx. 5–6 hours, fully dried after approx. 16 hours. Fully cured after approx. 7 days.

Oven drying

Ensure a flash-off time of approx. 30 minutes. Then force-dry the paint for approximately 60 minutes at an object temperature of 60–80°C.
The time for refinishing is to be checked in each case, yet is generally after full curing of the coating.

Allow longer drying times when temperatures are lower and/or humidity is higher!

Application of intense color shades

Vibrant color shades, especially in the yellow, orange, red, magenta and yellow-green range (see the affected RAL Classic Uni color shades below) have a low hiding power. For these color shades, we recommend applying an intermediate coat in the color shade RAL 9010 (approx. 40 µm) with 5461–9010.

Affected RAL Classic color shades:

RAL 1003	RAL 2001	RAL 3011
RAL 1004	RAL 2002	RAL 3013
RAL 1006	RAL 2003	RAL 3016
RAL 1007	RAL 2004	RAL 3018
RAL 1012	RAL 2008	RAL 3020
RAL 1016	RAL 2009	RAL 3027
RAL 1017	RAL 2010	RAL 3031
RAL 1018	RAL 2011	RAL 4002
RAL 1021	RAL 3000	RAL 4004
RAL 1023	RAL 3001	RAL 4007
RAL 1028	RAL 3002	RAL 4010
RAL 1032	RAL 3003	RAL 6018
RAL 1033	RAL 3004	RAL 6026
RAL 1037	RAL 3005	RAL 8023
RAL 2000	RAL 3007	

Spray data

Process	Nozzle	Pressure	Application viscosity[4)]
Airless spraying	0.23–0.33 mm	Approx. 160 bar (material)	60–80 sec.
Air spraying	1.3–1.5 mm	3–4 bar	20–35 sec.

4) Measured in a DIN 4 mm flow cup

Container sizes

2.5 kg, 10 kg, 25 kg.
Additional container sizes available on request.

Storage time

24 months after receipt of goods.
Store in a sealed container in a dry place and at room temperature (max. 25°C). Protect from heat sources and direct sunlight. Always keep the containers tightly sealed. Protect the 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.

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