

Technical Data Sheet

2C PUR Antigrffiti Paint

5748 high gloss

5749 silk gloss

Two-component non-stick polyurethane paint for easy removal of graffiti



Field of application

Due to its highly weather-resistant quality, it is ideally suited for construction elements/structural sections (steel and aluminum), garage doors, garden furniture and equipment, household appliances, medical equipment, shop and trade fair designs, lamps/lights, commercial vehicles, control cabinets, silos, door and window frames, doors, the frames of vending machines as well as living and construction containers.

Properties

- excellent antigrffiti properties ¹⁾
- excellent weather resistance
- excellent gloss and color stability
- good adhesion to many substrates
- high mechanical resistance
- good resistance to chemicals and solvents
- permanent temperature resistance up to 100 °C ²⁾

¹⁾ The antigrffiti properties only fully develop after a curing time of about 7 days. Color smears and soiling caused by environmental influences can be removed by using gentle cleaning methods (pressure washer). For stubborn graffiti, removal with suitable graffiti removal agents is recommended (a preliminary test is required). It is only possible to remove colored pencil graffiti to a limited extent. The antigrffiti effect (graffiti removal) depends, particularly in exterior applications, on age (weathering condition) and the maintenance (cleaning) of the coating.

²⁾ In construction, in accordance with coating build-up

Technical data

Basis	Combination of hydroxyacrylate and aliphatic polyisocyanate
Colors	All common color systems
Degree of gloss	5748 high gloss, > 90 GU/60° 5749 silk gloss, 60 to 70 GU/60° (in accordance with DIN EN ISO 2813)
Density	0.90 to 1.40 g/cm ³ ³⁾ (in accordance with DIN EN ISO 2811)

Technical data

Theoretical coverage	420 to 480 m ² /kg (with 1 µm dry film thickness) ³⁾⁴⁾
Solids content	50 to 68 weight-% ³⁾
Delivery viscosity at 20 °C	5748: 90 to 120 sec./DIN 4 mm 5749: 150 to 200 mPas
Stability	150 to 250 µm (wet film)
Flash point	> 23 °C
Labeling	See current safety data sheet.
Accelerated weathering QUV-B/SE	after 600 h residual gloss ≥ 50 % of initial gloss (in accordance with DIN EN ISO 16474-3)
Accelerated weathering Xenon	after 1.000 h residual gloss ≥ 50 % of initial gloss (in accordance with DIN EN ISO 16474-2)

³⁾ depending on color

⁴⁾ in mixture

Coating recommendation

Substrates ⁵⁾⁶⁾	Prime coat	Intermediate coat	Top coat ⁷⁾
Steel preferably sand-blasted (degree of purity at least SA 2 ½ in accordance with DIN EN ISO 12944, Part 4), iron or zinc-phosphated.	2C PUR AC Primer 5705 40 to 60 µm	If required (film thickness specification), a second layer can be applied with the corresponding primer.	2C PUR Antigrffiti Paint 5748, 5749 40 to 80 µm ⁸⁾
	2C PUR High Solid Primer 5703 40 to 80 µm		
Galvanized steel		For top coats in intense color shades (see application), an intermediate coating in color shade RAL 9010 (approximately 40 µm) is required with 5742.-.9010.	
Aluminum	2C Epoxy Primer 5706 40 to 80 µm		
Non-ferrous metals among others			

⁵⁾ Generally, the substrate should be free from grease, oil, separating and drawing agents as well as corrosion products and other impurities.

⁶⁾ Porous or textured substrates negatively affect the removal of graffiti without residue. Mineral substrates are not suitable.

⁷⁾ Repairing old coatings: Completely remove loose, old coatings, sand intensively until dull using Sandpaper P 120 to remove tough, old coatings. The surface to be coated must be prepared for coating using Brillux Cleaner and Degreasing Agent Type 614. The substrate must generally be free of fats, oils, separating and drawing agents, dirt and corrosion products and other impurities and must be coated with the 2C Epoxy Adhesion Primer 5706.-.7035.

⁸⁾ Coat such that the required paint layer meets the stipulated dry film thickness for air-drying (at 20 °C) within 5 hours. (See how to air dry (air-drying and oven drying) page 4).

Hardener

PUR-Hardener	5770.-.0010 5770.-.0011 (standard curing) 5770.-.0020 (slowly curing) 5770.-.0030 (fast curing)
Basis	Aliphatic polyisocyanate
Shelf life	6 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.
Minimum shelf life	Refer to label
Mixing ratio	5 : 1 weight-% (4 : 1 vol.-%)
Mixing	As 2C system, the actual paint and the hardener are supplied separately and mixed homogeneously in the specified mixing ratio just before application.

Process

	Material has to be stirred until homogenous before application.
Thinner	PUR Thinner 5102 (medium-volatile) PUR Thinner 5101 (slowly volatile) to improve leveling on large surfaces. Disperse homogeneously by stirring.
Pot life	4 to 6 h (at 20 °C)
Application temperature	> 5 °C (object temperature 3 °C above dew point)
Humidity	< 80 % relative humidity
Application	Air spraying, air mix and airless spraying, E-static spraying.
Compatibility	Compatibility is given only in combination with the hardeners, thinners and primers mentioned in this Technical Data Sheet.
Implementation in intense color shades	Brilliant intense color shades, in particular in the realms of yellow, orange, red, magenta and yellow-green (for the RAL Classic Uni Color Shades affected, see below) have a lower hiding power. For these color shades, we recommend an intermediate coating in color shade RAL 9010 (approximately 40 µm) with 5742.-.9010. RAL Classic color shades affected: 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

Drying

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

- Dust dry after approx. 30 minutes
- Tack-free and suitable for recoating after approx. 2 hours to a maximum of 5 hours. After this time has elapsed, the paint must be intensively sanded until it has become dull using P 240 sanding paper to prepare it for additional recoating. The surface to be coated must be prepared for coating using Brillux Cleaner and Degreasing Agent Type 614. The substrate must generally be free of fats, oils, separating and drawing agents, as well as dirt and corrosion products including impurities.
- Fully dry after 16 to 24 hours.
- Cured after 7 days.

Oven drying

Adhere to approx. 30 min. flash-off time. Then force-dry the coating for approximately 30 min. at an object temperature of approximately 80 °C.

- After oven drying, the paint must be intensively sanded until it has become dull using P 240 sanding paper to prepare it for additional coating. The surface to be coated must be prepared for coating using Brillux Cleaner and Degreasing Agent Type 614. The substrate must generally be free of fats, oils, separating and drawing agents, as well as dirt and corrosion products including impurities.

It is only possible to dry or cross-link the applied paint film at temperatures above + 5 °C. The drying time decreases with the temperature increase.

Spray data

Process	Nozzle	Pressure	Application viscosity ⁹⁾
Air spraying	1.3 to 1.5 mm	4 to 5 bar	20 to 25 sec.
Air-Mix spraying	0.23 to 0.33 mm	120 to 150 bar (material) 1 to 3 bar (air)	35 to 45 sec.

⁹⁾ Measured in DIN 4 mm flow cup (in mixture).

Packaging

25 kg
Further container sizes available upon request.

Shelf life

24 months after receipt.
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 the contents from surface drying and drying out. Dried paint residues and surface-dried skin are insoluble in paint and can only be removed by sieving.

Minimum shelf life refer to label

Technical Information

Special commercial surfactant-based graffiti removers should be used to remove the most persistent paint, color and colored pencil smears on metallic surfaces coated with 2K-PUR Antigrffiti Paints 5748, 5749. Their specific suitability must be tested in advance on a test surface on an object on a case-by-case basis.

Please observe the technical information provided in our Technical Data Sheet "Graffiti removal".

Remark

This Technical Data Sheet is based on intense development work and many years of practical experience. The contents do not constitute any contractual relationship. The user/buyer is not released from his/her obligation to test our products for suitability for the intended application. In addition, our General Terms and Conditions shall apply.

As soon as a new edition of this Technical Data Sheet is issued, the previous specifications become invalid.

If you need the current version, please contact your Brillux consultant, Version 21.

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