Technical Data Sheet

Antigraffiti Powder PU 5963

Coarse-texture coating powder with a polyurethane base for both interior and exterior use enabling residue-free removal of graffiti without damaging the surface

Quick-delivery service

Field of application

Due to its good weather resistance and excellent permanent antigraffiti effect, the material is perfect for all areas making the highest demands on visual stability of the coating and effective protection against graffiti of any kind, e.g. facade coating, noise protection walls, garage doors, doors, door frames, windows, fittings, structural elements, profiles, etc.

Properties

- very good, permanent antigraffiti effect
- easy and residue-free removal of graffiti
- good weather resistance
- good gloss and color stability
- excellent chemical and solvent resistance
- excellent surface hardness
- covers uneven areas and substrate defects
- after pretreatment the paint is suitable for all common metal surfaces (on galvanized steel a suitable prime coat is required)
- once fully cured, the paint film is physiologically safe

Technical data

Basis	Polyurethane
Colors	Upon request The colour "RAL 7035 light grey" is available at short notice via the quick delivery service.
Degree of gloss	silk gloss to glossy

Technical data

Density	1.45 to 1.75 g/cm³ (in accordance with DIN EN ISO 8130-2)[1)]
Theoretical coverage	approx. 625 m²/kg (at 1 µm dry film thickness)[1)]
Grain distribution	< 20 % 10 µm 40–55 % < 32 µm > 92 % < 90 µm (laser measuring instrument)
Cross hatch	Gt 1 C (according to DIN EN ISO 2409)
Erichsen cupping test	≥ 1,5 mm (according to DIN EN ISO 1520)
Salt spray test	delamination at scribe ≤ 2 mm (according to DIN EN ISO 4628-8) on zinc-phosphated steel > 750 h (according to DIN EN ISO 9227-NSS)
Condensation water test	degree of blistering 0 (S0) (according to DIN EN ISO 4628-2) on zinc-phosphated steel > 750 h (according to DIN EN ISO 6270-2)
Accelerated weathering Xenon	after 600 h residual gloss ≥ 50 % of initial gloss[2)] (according to DIN EN ISO 16474-3)
Labelling	See current safety data sheet

1) depending on color
2) Since the measured gloss values of coarse-textured powder coatings depend on the texture, a gloss assessment must also be carried out visually.

Coating recommendation

Substrates[3)]	**Prime coat[4)]**	**Top coat**
Aluminium preferably yellow- or green-chromated (according to DIN EN 12487) or chromium-free no-rinse pretreatment **Steel** preferably iron or zinc-phosphated **Cast iron** **Galvanized steel[4)]** **etc.**	n/a[4)]	Antigraffiti Powder PU 5963 50 to 70 µm [5)]

3) Generally, the substrate must be free from grease, oil, isolating and drawing compounds as well as dirt, corrosion products and other pollutants (this applies in particular if directly heated gas furnaces are used) and pretreated according to the corrosion protection requirements.
4) On galvanized steel a suitable prime coat is required.
5) Depending on color

Process

Compatibility

Different batches or powder coat qualities cannot always be mixed/ are not always compatible to one another. Surface defects such as gloss reduction, specks, crater, orange peel effect etc. may result from incompatibility. To be sure, appropriate tests shall be carried out before application.

Application temperature

15 to 25 °C

Air humidity

< 75 % r. h.

Application

Generally, make sure the substrate is grounded properly. The fluidizing, conveying and dosing air must be free from oil and condensation water. In order to obtain a uniform coating quality, a constant fresh/recovered powder ratio should be maintained. The recovery powder portion in the circulation system should normally be less than 35 %. Please note our Technical Information “Textured coating powders – Important information on use of textured coating powders”.

Corona application

Depending on geometry of parts and application use corresponding coating-programs (as the case may be with utilisation of limitation of spraying current).
For application-systems without limitation of spraying current:
voltage:
70 to 100 kV (in the case of first coat)

Tribo application

possible

Curing conditions

Duration	Object temperature
30 to 55 min.	at 180 °C
20 to 35 min.	at 190 °C
15 to 25 min.	at 200 °C

Packaging

20 kg single cardboard box
Further container sizes available upon request.

Shelf life

24 months after receipt of the goods in the original sealed container. 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.

Minimum shelf life

refer to label

Technical Information

Special commercial tenside-containing graffiti removers should be used to remove persistent lacquer, paint and fibre pen smears from metallic surfaces coated with PU 5960, 5961, 5962 or 5963 anti-graffiti powders. In individual cases, their concrete suitability must be tested in advance on a test surface on the object. Please refer to our Technical Info "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 7.

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