

TECHNICAL DATA SHEET

DBS 918 340

Article No.: 13591

Version: 6

POLYFLEX® PUR-151 Metallic smooth antigraffiti Corona silk gloss

Description:	Superdurable metallic powder for outdoor use based on polyurethane. Gives silk gloss surfaces with good flow and excellent light and weather resistance. The coatings exhibit a high crosslinking density resulting in exceptional solvent resistance. This feature allows the removal of so called "graffiti" with appropriate products without damaging the coating. Stabilized against overcuring and discolouration in directly gas fired ovens.		
Applications:	Noise barriers, vehicle equipment in public transport, façade components, metal furniture, facilities in public buildings and many more		
Colours:	Almost any colour with few limitations		
Surface:	Smooth		
Gloss:	Visually silk gloss		
Powder properties:	Particle size distribution (HELOS H1708)	29 µm: 40 – 47 % 122 µm: 98 – 100 %	
	Density	1.4 – 1.7 g/cm ³ can vary depending on the colour; can be specified for each individual colour	
Material consumption:	g/m ²	= density (g/cm ³) x film thickness (µm)	
Coating thickness:	Recommended	70 – 90 depending on the colour tone	
	Maximum	120 µm	
Application:	The application can be made with all standard powder coating systems. Please observe our processing instructions for POLYFLEX powder coatings with metallic effect VR003D. To avoid surface defects and to maintain the anti-graffiti property, we recommend not mixing this type of powder coating with other powder coatings.		
Packaging:	<ul style="list-style-type: none"> - 20/25 kg cardboard box - 500 kg Octobox - 450/500 kg Big Bag Other packaging variations are available on request.		
Curing time:	Recommended	10 min. at 200°C object temperature	
	Object temperature	Minutes hold time min	Minutes hold time max
	210°C	6 min	9 min
	200°C	10 min	15 min
	190°C	15 min	22 min
	180°C	25 min	35 min
Substrates:	Various metals or also as a top coat, e.g. on a KTL primer. The substrate to be coated must be free of oil, grease and oxidation products. We recommend the following pre-treatments under load:		
	Aluminium	A suitable wet-chemical pretreatment or sweeping	
	Steel	Iron or zinc phosphating	
Physical properties:	Tested on 1): Aluminium panel 0.8 mm AlMg1 H14 chromated Layer thickness: 70 – 90 µm		
	Cross Cut test (DIN ISO 2409)	1) GT 0	

Mandrel bending test (DIN ISO 1519)	1) $\leq 5^*$ mm
Impact resistance (ASTM D 2794)	1) front ≥ 2.5 Nm* (~22 Inchpound)
	1) reverse ≥ 2.5 Nm* (~22 Inchpound)
Erichsen cupping (DIN ISO 1520)	1) $\geq 5^*$ mm
Buchholz Hardness (DIN ISO 2815)	≥ 80
(*) cracks; no detachment with adhesive tape, with unarmed eye	
Resistance:	Tested on: Aluminium panel 0.8 mm AlMg1 H14 chromated
Condensation water test (DIN ISO 6270)	1000 h no blistering Infiltration on the scratch track under 1 mm
Salt spray test (DIN ISO 9227)	1000 h no blistering Infiltration on the scratch track under 1 mm
Material Approvals:	-
DB	Product qualification of Deutsche Bahn according do DBS 918 340
Repairs:	For repairs (conveyors hangers touch ups) the repair kit, art. No 10006124 is available.
Post treatment of coated parts:	Appropriate preliminary tests are recommended for printing, gluing, labeling, film lamination, overcoating and other post treatments. Suitable plasticizer free materials are to be used for the packaging. Avoid condensation.
Storage:	Storage instruction: In the original containers, store in a cool and dry environment at max. 25 °C. No direct sun exposure.
	Shelf life: 18 months from the date of production under the mentioned conditions.
Safety recommendations:	Lower explosive limit Please refer to the safety data sheet.
	Further information can be found in the safety data sheet and the CEPE brochures "safe powder coating guideline" and "results of the experimental toxicological studies on thermosetting powdercoatings".
Comments:	The information in this technical data sheet relative to the properties and application of the product concerned are made on hand of our knowledge, development and practical experience. Because of the multiple possible applications, it is impossible for us to present them all in detail. Our technical consultants are at your disposal for any question you might have. Furthermore, our general sales and delivery conditions apply. This technical data sheet is revised periodically. If necessary, our sales department will confirm the validity of this document.
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