

TECHNICAL DATA SHEET

115j

P-1131

DBS 918 340

Article No.: 12545

Version: 14

POLYFLEX® PES-135 Pearl-Metallic smooth Corona silk matt

Description:	Pearl Metallic powder for outdoor use based on polyester resins. Gives silk matt surfaces with very good flow and very good light and weather resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.		
Applications:	Metal facades, Aluminium profiles, sun protection systems, windows, doors, gates and frames and many more.		
Colours:	Almost any colour with few limitations		
Surface:	Smooth		
Gloss:	Visually silk matt 25 – 39 Gloss units (60°)		
Powder properties:	Particle size distribution (HELOS H1708)	29 µm: 40 – 47 % 122 µm: 96 – 100 %	
	Density	1.4 – 1.8 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. To avoid surface defects, we recommend not mixing this type of powder coating with other powder coatings.		
Packaging:	- 20/25 kg cardboard box - 500 kg Octobox - 450/500 kg Big Bag Other packaging variations are available on request.		
Curing time:	Recommended	15 min. at 180°C object temperature	
	Object temperature	Minutes hold time min	Minutes hold time max
	200°C	10 min	15 min
	190°C	12 min	20 min
	180°C	15 min	25 min
Substrates:	Various metals, but mainly on appropriately pre-treated aluminium and hot-dip galvanized steel or steel primed with powder paint or KTL. The substrate to be coated must be free of oil, grease and oxidation products. We recommend the following pre-treatment under corrosion stress:		
	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) ≤ 5 mm	

	Impact resistance (ASTM D 2794)	1) front ≥ 5 Nm (~44 Inchpound) 1) reverse ≥ 2.5 Nm (~22 Inchpound)
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm
	Buchholz Hardness (DIN ISO 2815)	≥ 90
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:	-	
	GSB	115j
	Qualicoat	P-1131
	DB	Product qualification of Deutsche Bahn according to 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:	24 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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