





TECHNICAL DATA SHEET

115h P-0153

DBS 918 340

Article No.: 12544 Version: 13	POLYFLEX® PES-135 Pearl Metallic smooth Corona					
	silk gloss					
Description:	Pearl Metallic powder for outdoor use based on polyester resins. Gives silk gloss 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 silkgloss 65 – 85 Gloss units (60°)					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 96 – 100 %				
	Density	1.4 – 1.8 g/cm³ can vary depending on the colour; can be specified for each individual colour				
Material consumption:	g/m²	= density (g/cm³) 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	25 min 15 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	1) front	≥ 5 Nm	(~44 Inchpound)		
	(ASTM D 2794)	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 AIMg1 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	115h				
	Qualicoat	P-0153				
	DB	Product qua	lification of De	eutsche 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 f conditions.	24 months from the date of production under the mentioned conditions.			
Safety recommendations:	Lower explosive limit	Please refer to the safety data sheet.				
				et and the CEPE brochures "safe pow- oxicological studies on thermosetting		
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.					
Release date:	2/21/24		•			

