

TECHNICAL DATA SHEET

DBS 918 340

Article No.: 13824	POLYFLEX® PES	-20-Pc	wer Pear	rl-Metallic fine struc-		
Version: 6	ture antigraffiti Corona silk gloss					
Description:	Pearl metallic powder for indoor use based on polyester and epoxy resins. Gives silk gloss surfaces with fine structure. Compared to standard indoor products, this coating offers significantly better chemical and solvent resistance. Stabilized against overcuring and discolouration i directly gas fired ovens.					
Applications:	Preferred applications are in the sanitary, air-conditioning, food, kitchen, and hospital sectors, in public transport, for machinery and apparatus housings, metal furniture, kitchen appliances, etc					
Colours:	Almost any colour with few limitations					
Surface:	Fine structure					
Gloss:	Visually silkgloss					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	38 – 45 % 98 – 100 %			
	Density	1.4 – 1.7 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				
Application:	cessing instructions for POL defects and to avoid changi coating with other powder o	YFLEX powdeng the prope	er coatings with n	pating systems. Please observe our pro metallic effect VR003D. To avoid surfact mend not mixing this type of powder		
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 h	old time min	Minutes hold time max		
	200°C	7 min		10 min		
	190°C	10 min		15 min		
	180°C	15 min		23 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): Steel panel 0.8 mm ST1405 pickled twice V1094 Layer thickness: 70 – 90 μm					
	Cross Cut test (DIN ISO 2409)	1) GT 0				
	Mandrel bending test (DIN ISO 1519)	1) ≤ 10* mm				



	Impact resistance (ASTM D 2794)	1) front	≥ 2.5 Nm	(~22 Inchpound)			
	(ASTM D 2794)	1) reverse	≥ 2.5 Nm	(~22 Inchpound)			
	Erichsen cupping (DIN ISO 1520)	1) ≥ 3 mm					
Resistance:	Tested on: Steel panel iron phospated						
	Condensation water test (DIN ISO 6270)	500 h no blistering Infiltration on the scratch track under 1 mm					
	Salt spray test (DIN ISO 9227	240 h no blistering Infiltration on the scratch track under 1 mm					
Material Approvals:	-						
	DB	Product qua 340	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 f conditions.	18 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						

