## **TECHNICAL DATA SHEET**



DBS 918 340

Article No.: 13883	POLYFLEX <sup>®</sup> PES	-20-Power Pea	rl-Metallic smooth			
Version: 4	antigraffiti Cor	ona silk matt				
Description:	Pearl metallic powder for indoor use based on polyester and epoxy resins. Gives silk matt surfac- es with good flow. Compared to standard indoor products, this coating offers significantly better chemical and solvent resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.					
Applications:	Preferred applications are in the plumbing, air conditioning, food, kitchen, and hospital settings, public transport, machine and apparatus housings, metal furniture, kitchen appliances, etc.					
Colours:	Almost any colour with few limitations					
Surface:	Smooth	Smooth				
Gloss:	Visually silkmatt					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 98 – 100 %				
	Density	1.4 – 1.7 g/cm <sup>3</sup> 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	150 μm				
Application:	The application can be made with all standard powder coating systems. Please observe our pro- cessing instructions for POLYFLEX powder coatings with metallic effect VR003D. To avoid surface defects and to avoid changing the properties, 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:	<b>Recommended</b> 15 min. at 180°C object temperature					
	Object temperature	Minutes hold 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	1) < 5 mm				



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	Impact resistance (ASTM D 2794)	1) front	≥ 5 Nm	(~44 Inchpound)		
		1) reverse	≥ 5 Nm	(~44 Inchpound)		
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm				
Resistance:	Tested on: Steel panel 0.8 mm ST1405 pickled twice V1094					
	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 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	Please refer to the safety data sheet.			
	Further information can be found in the safety data sheet and the CEPE brochures "safe pow- der coating guideline" and "results of the experimental toxicological studies on thermosetting powdercoatings".					
	powdercoatings".					
Comments:	The information in this technical made on hand of our knowledge it is impossible for us to present	, development and p them all in detail. Ou neral sales and delive	ractical experier r technical cons ry conditions ap	and application of the product concerned are nce. Because of the multiple possible applications ultants are at your disposal for any question you oply. This technical data sheet is revised periodical locument.		

