

TECHNICAL DATA SHEET

DBS 918 340

Article No.: 13476 Version: 13	POLYFLEX® PES-20-Power structure fine antigraffiti Corona silk matt				
Description:	Powder for indoor use based on polyester and epoxy resins. Gives silk matt surfaces with fine structure. 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, machine and apparatus housings, metal furniture, kitchen appliances				
Colours:	Almost any colour with few limitations				
Surface:	Fine structure				
Gloss:	Visually silkmatt				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 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:	The application can be made with all standard powder coating systems. Please observe our processing instructions for textured powder coatings VR001D. In order to avoid surface defects and not to change 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:	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 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)	
	1) reverse	≥ 2.5 Nm*	(~22 Inchpound)	
Erichsen cupping (DIN ISO 1520)	1) ≥ 3* mm			
(*) cracks; no peeling with adhesive tape;				
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			
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DB	Product qualification of Deutsche Bahn according do DBS 918 340			
			N EN 45545-2 (R1 / HL3) and is there-	
For repairs (conveyors hangers touch ups) the repair kit, art. No 10006124 is available.				
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 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.			
Lower explosive limit	Please refer	to the safety d	ata sheet.	
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.				
2/21/24		-		
	Erichsen cupping (DIN ISO 1520) (*) cracks; no peeling with adhese Tested on: Steel panel iron phose Condensation water test (DIN ISO 6270) Salt spray test (DIN ISO 9227	Tested on: Steel panel iron phospated Condensation water test (DIN ISO 6270) Salt spray test (DIN ISO 9227 DB Product qua 340 This article has passed the fire test in accorfore particularly suitable for use in rail vehi For repairs (conveyors hangers touch ups) Appropriate preliminary tests are recomme overcoating and other post treatments. Sui packaging. Avoid condensation. Storage instruction: In the origin: max. 25 °C. № Shelf life: 18 months fi conditions. Lower explosive limit Please referements on the powdercoatings. The information in this technical data sheet relative to made on hand of our knowledge, development and pit is impossible for us to present them all in detail. Ou might have. Furthermore, our general sales and delive ly. If necessary, our sales department will confirm the	Erichsen cupping (DIN ISO 1520) (*) cracks; no peeling with adhesive tape; Tested on: Steel panel iron phospated Condensation water test (DIN ISO 6270) Salt spray test (DIN ISO 9227 DB Product qualification of Degrave and This article has passed the fire test in accordance with DI fore particularly suitable for use in rail vehicles. For repairs (conveyors hangers touch ups) the repair kit, and Appropriate preliminary tests are recommended for print overcoating and other post treatments. Suitable plasticize packaging. Avoid condensation. Storage instruction: In the original containers, smax. 25 °C. No direct sunce the safety of the safety of the safety data shee der coating guideline and "results of the experimental to powdercoatings". The information can be found in the safety data shee der coating guideline and "results of the experimental to powdercoatings". The information in this technical data sheet relative to the properties at made on hand of our knowledge, development and practical experience it is impossible for us to present them all in detail. Our technical consul might have. Furthermore, our general sales and delivery conditions apply. If necessary, our sales department will confirm the validity of this do	

