TECHNICAL DATA SHEET

Article No.: 13124 Version: 7	POLYFLEX [®] PES-50-DS smooth thin coat Corona silk matt 20					
Description:	Powder for indoor use based on polyester and epoxy resins. Gives silk matt surfaces with good flow. This product is specially optimized for very low calorific values. Stabilized against overcur- ing and discolouration in directly gas fired ovens.					
Applications:	Metal Ceilings					
Colours:	Almost any colour with few limitations					
Surface:	Smooth					
Gloss:	Visually silkmatt					
	15 – 25 Gloss units (60°)					
Powder properties:	Particle size distribution (HELOS H1708)	7 μm: 31 μm:	8 – 13 % 61 – 66 %			
	Density	1.4 – 1.8 g/cm ³ 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	30 – 50 depending on the colour tone (bright colours rather more)				
	Maximum	100 μm				
Application:	The application can be made with all standard powder coating systems. In order to avoid sur- face defects and not to change the properties, we recommend not mixing this type of powder coating with other powder coatings. Do not bake together with other powder coatings in the same oven.					
Packaging:	- 20/25 kg cardboard box					
	- 500 kg Octobox - 450/500 kg Big Bag					
	Other packaging variations are available on request.					
Curing time:	Recommended 13 min. at 180°C object temperature					
	Object temperature	-	nold time min	Minutes hold time max		
	210°C	5 min		6 min		
	190°C	9 min		12 min		
	180°C	13 min		17 min		
	170°C	20 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: 50 – 70 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) (~44 Inchpound)			
	(ASTM D 2794)	1) reverse	≥ 5 Nm				
	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:	-						
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 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".						
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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