TECHNICAL DATA SHEET

Article No.: 14206 Version: 3	POLYFLEX® PES-55-NT-DS smooth thin coat Corona silk matt 20				
Description:	Low bake thin coat powder for indoor use based on polyester and epoxy resins. Gives silk matt surfaces with very good flow. Stabilized against overcuring and discolouration in directly gas fired ovens.				
Applications:	Metal ceilings, metal furniture, shelving components, machine casings, etc.				
Colours:	Almost any colour with few limitations				
Surface:	Smooth				
Gloss:	Visually silkmatt				
Powder properties:	15 – 25 Gloss units (60°) Particle size distribution (HELOS H1708)	7 μm: 31 μm:	8 – 13 % 61 – 66 %		
	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 thi	ckness (µm)	
Coating thickness:	Recommended	40 – 70 depending on the colour tone			
	Maximum	80 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. 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 10 min. at 170°C object temperature				
	Object temperature	Minutes h	old time min	Minutes hold time max	
	190°C	6 min		9 min	
	180°C	7 min		12 min	
	170°C	10 min		18 min	
	165°C	17 min		28 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 pr	etreatment	
	Steel	Iron or zinc phosphating			
Physical properties:	Tested on 1): Steel panel 0.8 mm ST1405 pickled twice V1094 Layer thickness: 30 – 50 µm				
	Cross Cut test (DIN ISO 2409)	1) GT 0			
	Mandrel bending test (DIN ISO 1519)	1) ≤ 5 mm			



Impact resistance (ASTM D 2794)	1) front ≥ 2.5 Nm* (~22 Inchpound)			
	1) reverse \geq 2.5 Nm* (~22 Inchpound)			
Erichsen cupping (DIN ISO 1520)	1) ≥ 5* 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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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 data sheet.			
Further information can be found in the safety data sheet and the CEPE brochures "safe powder coating guideline" and "results of the experimental toxicological studies on thermosetting powdercoatings".				
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				
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