## **TECHNICAL DATA SHEET**

Article No.: 11480	POLYFLEX <sup>®</sup> PE	S-55-NT smooth	Tribo/Corona silk			
Version: 5	gloss 75					
Description:	Low bake powder for indoor use based on polyester and epoxy resins. Gives silk gloss surfaces with very good flow. Stabilized against overcuring and discolouration in directly gas fired ovens.					
Applications:	Metal furniture, shelves elements, switch boards, lockers, machine casings, lampscasing, kitchen appliances and many more					
Colours:	Almost any colour with few limitations					
Surface:	Smooth					
Gloss:	Visually silkgloss 65 – 85 Gloss units (60°)					
Powder properties:	<b>Particle size distribution</b> (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 98 – 100 %				
	Density	1.4 – 1.8 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 case of white)	70 – 90 depending on the colour tone (closer to 120 μm in the case of white)			
	Maximum	120 µm	120 µm			
Application:	The application can be made with all standard powder coating systems. To avoid surface de- fects, 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> 10 min. at 160°C object temperature					
	Object temperature	Minutes hold time min	Minutes hold time max			
	200°C	3 min	6 min			
	180°C	5 min	10 min			
	160°C	10 min	24 min			
	140°C	27 min	45 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	A suitable wet-chemical pretreatment or sweeping			
	Steel	Iron or zinc phosphating				
	The pretreatment can both be applied with dipping or spraying methods.					
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				

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	Mandrel bending test (DIN ISO 1519)	1) ≤ 5 mm				
	Impact resistance (ASTM D 2794)	1) front	≥ 10 Nm	(~88 Inchpound)		
		1) reverse	≥ 10 Nm	(~88 Inchpound)		
	Erichsen cupping (DIN ISO 1520)	1) ≥ 6 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.					
Release date:	2/21/24					

