TECHNICAL DATA SHEET

Article No.: 13871 Version: 5	POLYFLEX® PES-20-Power coarse structure anti- graffiti Corona silk gloss						
Description:	Powder for indoor use based on polyester and epoxy resins. Gives silk gloss surfaces with coarse 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 sanitary, air-conditioning, food, kitchen and hospital sectors, machinery and apparatus housings, metal furniture, kitchen appliances						
Colours:	Virtually all colors possible (including white and very light colors).						
Surface:	Rough structure						
Gloss:	Visually silkgloss	/isually silkgloss					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 38 – 45 % 122 μm: 98 – 100 %					
	Density	$1.4-1.7~{\rm g/cm^3}$ 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: Application:	Recommended	80 – 100 depending on the colour tone					
	Maximum	150 μm					
	powder coatings. In order to must be adhered to. If the c Please read our processing i defects, we recommend no	o achieve a uniform texture, the coating thickness is too low, point instructions for textured power	stains) and can cause craters in smooth ne recommended coating thickness ores will form down to the substrate. der coatings VR001D. To avoid surface oating 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 tem	perature					
	Object temperature	Minutes hold time min	Minutes hold time max				
	210°C	5 min	7 min				
	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					
	The pretreatments can be can be applied both by immersion and by spraying, applied.						
Physical properties:	Tested on 1): Steel panel 0.8 mm ST1405 pickled twice V1094 Layer thickness: 80 $-$ 100 μ m						



	Cross Cut test (DIN ISO 2409)	1) GT 0			
	Mandrel bending test (DIN ISO 1519) Impact resistance (ASTM D 2794)	1) ≤ 5 mm			
		1) front 1) reverse	≥ 5 Nm ≥ 2.5 Nm	(~44 Inchpound) (~22 Inchpound)	
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm			
	Buchholz Hardness (DIN ISO 2815)	≥ 90			
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.			
				et and the CEPE brochures "safe pow- coxicological studies on thermosetting	
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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