TECHNICAL DATA SHEET

Article No.: 11140	POLYFLEX [®] PES	-50 medium co	oarse structure Coro-		
Version: 7	na silk matt				
Description:	Powder for indoor use based on polyester and epoxy resins. Gives silk matt surfaces with medi- um coarse structure.				
Applications:	Metal furniture, shelves eler	nents, machine casing and ma	any more		
Colours:	Many colours; very bright colours are not recommended (yellowing)				
Surface:	Mediumrough structure				
Gloss:	Visually silkmatt				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 38 – 45 % 122 μm: 98 – 100 %			
	Density	1.3 – 1.7 g/cm ³ can vary depending on the colour; can be specified for each individual colour			
Material consumption:	g/m ²	= density (g/cm³) x film thickness (μm)			
Coating thickness: Application:	Recommended	80 – 100 depending on the	colour tone		
	Maximum	150 µm			
	must be adhered to. If the c Please read our processing	coating thickness is too low, po instructions for textured powe	ne recommended coating thickness bres 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 13 min. at 180°C object temperature				
	Object temperature	Minutes hold time min	Minutes hold time max		
	210°C	5 min	6 min		
	200°C	6 min	8 min		
	190°C	8 min	12 min		
	180°C	13 min	17 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: 80 – 100 μm				
	Cross Cut test (DIN ISO 2409)	1) GT 0			
	Mandrel bending test (DIN ISO 1519)	1) ≤ 8 mm			



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	Impact resistance	1) front	≥ 5 Nm	(~44 Inchpound)	
	(ASTM D 2794)	1) reverse	≥ 5 Nm	(~44 Inchpound)	
	Erichsen cupping (DIN ISO 1520)	1) ≥ 2 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	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 periodical- ly. If necessary, our sales department will confirm the validity of this document.				
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