TECHNICAL DATA SHEET

Article No.: 11140	POLYFLEX® PES-50 medium coarse structure Coro- na silk matt					
Version: 7						
Description:	Powder for indoor use based on polyester and epoxy resins. Gives silk matt surfaces with medium coarse structure.					
Applications:	Metal furniture, shelves elements, machine casing and many more					
Colours:	Many colours; very bright colours are not recommended (yellowing)					
Surface:	Mediumrough structure					
Gloss:	Visually silkmatt	silkmatt				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	38 – 45 % 98 – 100 %			
	Density	1.3 – 1.7 g/cm³ 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	80 – 100 depending on the colour tone				
	Maximum	150 μm				
Application:	yellow if the thermal load is process. Please observe our	too high or to processing in	oo long, so great structions for te	pating systems. The powder tends to attention must be paid to the curing axtured powder coatings VR001D. To e of powder coating with other pow-		
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	1) ≤ 8 mm				



Impact resistance	1) front 1) reverse	≥ 5 Nm	(~44 Inchpound)		
(ASIM D 2/94)		≥ 5 Nm	(~44 Inchpound)		
Erichsen cupping (DIN ISO 1520)	1) ≥ 2 mm				
Buchholz Hardness (DIN ISO 2815)	≥ 90				
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				
-					
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					
	Erichsen cupping (DIN ISO 1520) Buchholz Hardness (DIN ISO 2815) Tested on: Steel panel iron phosp Condensation water test (DIN ISO 6270) Salt spray test (DIN ISO 9227 For repairs (conveyors han Appropriate preliminary te overcoating and other pospackaging. Avoid condens Storage instruction: Shelf life: Lower explosive limit Further information can be der coating guideline" and powdercoatings". The information in this technical made on hand of our knowledge it is impossible for us to present might have. Furthermore, our get ly. If necessary, our sales departners	Erichsen cupping (DIN ISO 1520) Buchholz Hardness (DIN ISO 2815) Tested on: Steel panel iron phospated Condensation water test (DIN ISO 6270) Salt spray test (DIN ISO 9227 For repairs (conveyors hangers touch ups) Appropriate preliminary tests are recomme overcoating and other post treatments. Suipackaging. Avoid condensation. Storage instruction: In the origina max. 25 °C. № Shelf life: 18 months from the conditions. Lower explosive limit Please refersion to the expowdercoatings". The information in this technical data sheet relative to made on hand of our knowledge, development and pit is impossible for us to present them all in detail. Ou might have. Furthermore, our general sales and delive ly. If necessary, our sales department will confirm the	Erichsen cupping (DIN ISO 1520) Buchholz Hardness (DIN ISO 2815) Tested on: Steel panel iron phospated Condensation water test (DIN ISO 6270) Salt spray test (DIN ISO 9227 For repairs (conveyors hangers touch ups) the repair kit Appropriate preliminary tests are recommended for prin overcoating and other post treatments. Suitable plasticipackaging. Avoid condensation. Storage instruction: In the original containers max. 25 °C. No direct sun Shelf life: 18 months from the date conditions. Lower explosive limit Please refer to the safety Further information can be found in the safety data shed der coating guideline" and "results of the experimental powdercoatings". The information in this technical data sheet relative to the properties made on hand of our knowledge, development and practical experier it is impossible for us to present them all in detail. Our technical cons might have. Furthermore, our general sales and delivery conditions apply. If necessary, our sales department will confirm the validity of this containers to the sales and delivery conditions apply. If necessary, our sales department will confirm the validity of this containers to the properties and the properties and delivery conditions apply. If necessary, our sales department will confirm the validity of this containers the properties and the properties and delivery conditions apply.		

