

TECHNICAL DATA SHEET

Article No.: 11210 Leaflet No.: 1779 Version: 5	POLYFLEX [®] PES	S-50 rough structure Corona silk-matt			
Description:	Powder paint with rough structure for interior use on the basis of polyester and epoxy resins with excellent covering power and good resistance to chemicals. Curing can take place above 180 °C.				
Applications:	Metal furniture, shelves elements, machine casings, etc.				
Colours:	Many colours; very bright colours are not recommended (yellowing)				
Surface:	Rough structure				
Gloss:	Visually silk-matt				
Powder properties:	Particle size distribution (HELOS H1708) Density	smaller 29 μm: 38 – 45 % smaller 122 μm: 98 – 100% 1.3 – 1.7 g/cm³ can vary depending on the colour; can be specific for each individual colour			
Material consumption:	g/m2 =	density (g/cm³) x film thickness (µm)			
Coating thickness:	Recommended Maximum	80 – 100 μm depending on the colour tone 150 μm			
Application:	The application can be made with the usual electrostatic powder coating systems, Tribo or Co- rona. The powder tends to yellowing, the baking process is therefore devote most attention. To avoid any surface disturbances, we recommend not to mix this type of powder paint with any other powder paint. Do not burn with other powder coatings together in the same ofen.				
Packaging:	 20/25 kg cardboard 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				
Curing conditions:	Object temperature 210 °C 200 °C 190 °C 180 °C	Minutes hold time 4 min. hold time 6 min. hold time 8 min. hold time 13 min. hold time			
Substrates:	Various metals, but primarily as top coat on a KTL pre-treated surface. The support to be coated has to be free of oil, grease and oxidation products. Under exposure to corrosion, we recommend the following pre-treatments:				
	Aluminum Steel/Iron	A suitable chemical pretreatment Iron or zinc phosphating			

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Physical properties: Tested on:	Cross cut test (DIN ISO 2409)	GT o 1) ≤ 8 mm				
Steel sheet 0.8mm ST1405 double-pickled V1094	Mandrel bending test (DIN ISO 1519)					
Layer thickness: 80 – 100 μm	Impact resistance ASTM D 2794 Erichsen cupping (DIN ISO 1520)	1) front 1) reverse 1) ≥ 2 mm	≥ 5 Nm ≥ 2.5 Nm	(~44 inchpound) (~22 inchpound)		
Resistance: Tested on: steel sheet iron phosphated	Condensation water test DIN ISO 6270	500 h no bubble building Infiltration on the scratch track under 1 mm				
	Salt spray test	240 h no bubble building Infiltration on the scratch track under 1 mm				
Post treatment of coated parts:	To print, to paste, to label, to laminate with film, over-coating and other post-treatments, some preliminary testing is recommended. For packaging only use appropriate plasticizers free materials. Condensation must be avoided.					
Repairs:	For repairs (conveyors hangers touch ups) the repair kit, art. No 12155 is available.					
Storage:	Storage instruction:	In the original containers, store in a cool and dry environment by max. 25 °C. No direct sun exposure.				
	Shelf life	18 months from the date of production under the mentioned condi- tions.				
Safety recommendations.	Lower explosive limit	Please refer to the safety data sheet.				
	Further information are to find in the safety data sheet and the CEPE booklet "Safe powder coat- ing" and "Results of experimental toxicology study on thermosetting powder coatings".					
Comments:	The information on 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.					

