Article No: Leaflet No: Version:

13124

2253

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Technical data sheet

POLYFLEX[®] PES-50-DS smooth thin-film non-yellowing Corona silk-matt 20

Powder coating with very low calorific value for indoor use based on polyester and epoxy resins with very good hiding power. Outstanding overbake stability with respect to gloss and yellowing. The product is mainly used for the coating of metal ceilings.

Applications	Metal Ceilings		
Colours	many colours with few restrictions		
Surface	smooth		
Gloss			
	silk matt, 17-23 gloss units (60°)		
Powder properties	Particle size distributior (HELOS H1708)	1 smaller 7 μm: 8 – 13% smaller 31 μm: 61 – 66%	
	Density	1.4 – 1.8 g/cm³ different dependir can be specified per colour	ng on the colour;
Material consumption	$g/m^2 = D$	ensity (g/cm³) x coating thickness (μ	ım)
Coating thickness	Recommended 30	0 – 50 μm depending on colour (in v	vhite rather more)
	maximum 10	oo μm	
Application	The application can be made with the usual electrostatic powder coating systems.		
Packaging	paint.	sturbances, we recommend not to m bowder coatings together in the sam	
	 - 500 kg Octobox - 450/500 kg Big Bag Other packaging variations are available on request. 		
Baking diagram	Curing time recommendation: 13 min at 180 °C object temperature		
	30 25 20 15 10 5 0	min. max.	Curing operation: 210°C 5 min. hold time 200°C 6 min. hold time 190°C 9 min. hold time 180°C 13 min. hold time 170°C 20 min. hold time
	170 180	190 200 210 Objekttemp. in °C	

Substrates	Different metals also	o as top-coat, for example on cathodic anti-corrosion dip-coating.	
Substrates	The support to be coated has to be free of oil, grease and oxidation products. Under strain we recommend following pretreatments:		
		uitable chemical pretreatment n or zinc phosphating	
	The pretreatment can be applied by dip-coating or spray method.		
Physical properties	Cross cut test (DIN ISO 2409)	GT o	
iron steel 0.8mm ST1405 pickled twice V1094	Mandrel bending test ≤ 5 mm (DIN ISO 1519)		
Film thickness 50 – 70 μm	Impact resistance ASTM D 2794	front \geq 5 Nm (~44 inchpound)reverse \geq 5 Nm (~44 inchpound)	
	Erichsen cupping (DIN ISO 1520)	≥ 3 mm	
	Buchholz hardness (DIN ISO 2815)	≥ 90	
Resistances	Condensation water test500 h no bubble buildingDIN ISO 6270Infiltration on the scratch track under 1 mm		
iron phosphate steel sheet	Salt spray test240 h no bubble buildingDIN ISO 9227Infiltration on the scratch track under 1 mm		
Post treatment of coated parts	To print, to paste, to label, to foil laminate, and any other post treatment, some preliminary testing is recommended. For packaging only use appropriate plasticizers-free materials. Perspiration water should be avoided.		
Repairs	For repairs (conveyors hangers touch ups) the repair kit, Art. no 12155 is available		
Storage	Storage instruction:		
	Shelflife	environment by max. 25°C. No direct sun exposure 18 months from the date of production under the conditions mentioned above	
Safety recommendations	Lower explosive limi	it please refer to the safety data sheet	
	Further information are to find in the safety data sheet and the CEPE booklet "Safe powder coating" and "Results of the experimental toxicology study on thermosetting powder coatings".		

Comments:

The information on this technical data sheet about the properties and application of the product in question are made on hand of our knowledge, development and practical experience. Because of the multiple possible application, it is impossible for us to present them all in detail. Our technical consultants are at your disposal for any question you might have. Further more, 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.



KARL BUBENHOFER AG, Hirschenstrasse 26, CH-9201 Gossau SG Tel. +41 71 387 41 41, Fax +41 71 387 43 05, www.kabe-farben.ch