

TECHNICAL DATA SHEET

P-1793

Article No.: 14069 Version: 7	POLYFLEX® PAC	C-140-SD smoot	h Corona matt		
Description:	Superdurable powder for outdoor use based on polyester resins. Gives matt surfaces with good flow and excellent light and weather resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.				
Applications:	Metal façade, Aluminium profiles, sun protection systems, windows, doors, gates and many more and also for indoor application.				
Colours:	Many colour shades but with limitations (due do pigment supply)				
Surface:	Smooth				
Gloss:	Visually matt				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 99 – 100 %			
	Density	1.4 – 1.8 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	70 – 90 depending on the colour tone			
	Maximum	110 μm			
Application:	The application can be made with all standard powder coating systems. If the thermatoo long, recoatability cannot be guaranteed. Great attention must therefore be paiding process. To avoid surface defects and to maintain the properties, we recommend this type of powder coating with other powder coatings. When changing to a differen clean carefully.				
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	7 min	11 min		
	200°C	8 min	13 min		
	190°C	10 min	16 min		
	180°C	15 min	24 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			
	Steel	Iron or zinc phosphating			
	The pretreatments can be can be applied both by immersion and by spraying. applied.				
Physical properties:	Tested on 1): Aluminium panel 0.8 mm AlMg1 H14 chromated Layer thickness: 70 – 90 µm				
	Cross Cut test (DIN ISO 2409)	1) GT 0			



	Mandrel bending test (DIN ISO 1519)	1) ≤ 5* mm			
	Impact resistance (ASTM D 2794)	1) front	≥ 2.5 Nm* (~22 Inchpound)		
		1) reverse	≥ 2.5 Nm* (~22 Inchpound)		
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5* mm			
	Buchholz Hardness (DIN ISO 2815)	≥ 80			
	(*) cracks; no detachment with a	n adhesive tape, with unarmed eye			
Resistance:	Tested on: Aluminium panel 0.8 mm AIMg1 H14 chromated				
	Condensation water test (DIN ISO 6270)	1000 h no blistering Infiltration on the scratch track under 1 mm			
	Salt spray test (DIN ISO 9227	1000 h no blistering Infiltration on the scratch track under 1 mm			
Material Approvals:	-				
	Qualicoat	P-1793			
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:	6 months from the date of production under the mentioned conditions.			
Safety recommendations:	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".				
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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