

TECHNICAL DATA SHEET

P-1793

Article No.: 14239	POLYFLEX® PAG	C-140-SD Qualik	ond Pearl-Metallic			
Version: 6	smooth Corona matt					
Description:	Superdurable specially bonded Pearl metallic 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 facades, aluminium profiles, sun protection systems, windows, doors, gates, many more, also for indoor applications					
Colours:	According do PearlMetallic clour card. Many colours on request.					
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. Please observe processing instructions for POLYFLEX powder coatings with metallic effect VR003D.Ovecannot be guaranteed if the thermal load is too long. Great attention must therefore be the stoving process. To avoid surface defects and to maintain the properties, we recommixing this type of powder coating with other powder coatings. When changing to a quality, 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	nperature				
	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	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 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 har	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 d	lata 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.					
Release date:	2/21/24					

