TECHNICAL DATA SHEET

	POLIFLEX PES	-140-3	Qualib	ond Pearl-Metallic	
Version: 1	fine structure Corona matt				
Description:	Superdurable specially bonded Pearl metallic powder for outdoor use based on polyester resins. Gives matt surfaces with fine texture and excellent light and weather resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.				
Applications:	Noise barriers, enclosures, sun protection systems, garden furniture, gardening dools, Air conditioners and fans, chassis and parts, doors, gates and many more				
Colours:	Colors on request				
Surface:	Fine structure				
Gloss:	Visually matt				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	38 – 45 % 98 – 100 %		
	Density	1.4 – 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 thic	kness (µm)	
Coating thickness:	Recommended	70 – 90 depending on the colour tone		colour tone	
Packaging:	If the coating thickness is too low, pores will form down to the substrate. Please observe our processing instructions for textured powder coatings VR001D and for metallic effect VR003D. In order to avoid surface defects and not to change the properties, we recommend not mixing this powder coating type with other powder coatings. - 20/25 kg cardboard box				
	- 500 kg Octobox				
	- 500 kg Octobox				
	- 500 kg Octobox - 450/500 kg Big Bag				
	•	are available	on request.		
Curing time:	- 450/500 kg Big Bag		on request.		
Curing time:	 450/500 kg Big Bag Other packaging variations a Recommended 	perature	on request.	Minutes hold time max	
Curing time:	 - 450/500 kg Big Bag Other packaging variations at Recommended 10 min. at 200°C object tem 	perature		Minutes hold time max 14 min	
Curing time:	- 450/500 kg Big Bag Other packaging variations a Recommended 10 min. at 200°C object tem Object temperature	perature Minutes h			
Curing time:	- 450/500 kg Big Bag Other packaging variations a Recommended 10 min. at 200°C object tem Object temperature 210°C	perature Minutes h 8 min		14 min	
Curing time:	- 450/500 kg Big Bag Other packaging variations a Recommended 10 min. at 200°C object tem Object temperature 210°C 200°C	perature Minutes h 8 min 10 min		14 min 18 min	
	- 450/500 kg Big Bag Other packaging variations of Recommended 10 min. at 200°C object tem Object temperature 210°C 200°C 190°C 180°C When overcoating already pages.	Minutes h 8 min 10 min 15 min 25 min painted surfache substrate	old time min ces, it is essential must be free of o	14 min 18 min 26 min 40 min to check adhesion in advance. For apil, grease and oxidation products. We	
	- 450/500 kg Big Bag Other packaging variations of Recommended 10 min. at 200°C object tem Object temperature 210°C 200°C 190°C 180°C When overcoating already poplication directly to metal, temperature	Minutes h 8 min 10 min 15 min 25 min vainted surfache substrate	old time min ces, it is essential must be free of o	14 min 18 min 26 min 40 min to check adhesion in advance. For apil, grease and oxidation products. We subject to corrosion:	
Curing time: Substrates:	- 450/500 kg Big Bag Other packaging variations at Recommended 10 min. at 200°C object tem Object temperature 210°C 200°C 190°C 180°C When overcoating already polication directly to metal, to recommend the following poss	Minutes h 8 min 10 min 15 min 25 min vainted surfache substrate re-treatmen A suitable	old time min ces, it is essential must be free of o	14 min 18 min 26 min 40 min to check adhesion in advance. For apil, grease and oxidation products. We subject to corrosion:	
	- 450/500 kg Big Bag Other packaging variations of Recommended 10 min. at 200°C object tem Object temperature 210°C 200°C 190°C 180°C When overcoating already polication directly to metal, to recommend the following policition.	Minutes h 8 min 10 min 15 min 25 min vainted surfathe substrate re-treatmen A suitable	ces, it is essential must be free of o t if the surface is s wet-chemical pre c phosphating	14 min 18 min 26 min 40 min to check adhesion in advance. For apil, grease and oxidation products. We subject to corrosion:	



	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		
	(*) 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:	-			
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:	18 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.			
Release date:	2/21/24			

