## **TECHNICAL DATA SHEET**

Article No.: 12478 Version: 7	POLYFLEX® PES-138 coarse structure avivage re-						
7	sistant Corona silk gloss						
Description:	Powder for outdoor use based on polyester resins. Gives silk gloss surfaces with coarse structure and good light and weather resistance. The powder meets avivage resistance according to DIN 329923 for over 90 days and is therefore suitable for applications in the textile industry. Stabilized against overcuring and discolouration in directly gas fired ovens.						
Applications:	Textile machinery, parking and ticket machines and many more						
Colours:	Almost any colour with few limitations						
Surface:	Rough structure						
Gloss:	Visually silkgloss						
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	38 – 47 % 96 – 100 %				
	Density	$1.4-1.8~{\rm g/cm^3}$ 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	80 – 100 depending on the colour tone					
	Maximum	150 μm					
Packaging:	Please read our processing	instructions fo	or textured power	ores will form down to the substrate. ler coatings VR001D. To avoid surface oating with other powder coatings.			
	Other packaging variations are available on request.						
Curing time:	Recommended 8 min. at 180°C object temperature						
	Object temperature	Minutes ho	ld time min	Minutes hold time max			
	200°C	4 min		8 min			
	190°C	5 min		10 min			
	180°C	8 min		15 min			
	170°C	12 min		20 min			
	160°C	18 min		30 min			
Substrates:	Various metals, but mainly on appropriately pre-treated aluminium and hot-dip galvanized steel or steel primed with powder paint or KTL. The substrate to be coated must be free of oil, grease and oxidation products. We recommend the following pre-treatment under corrosion stress:						
	Aluminium	A suitable v	A suitable wet-chemical pretreatment or sweeping				
	Steel	Iron or zinc	Iron or zinc phosphating				
Physical properties:	Tested on 1): Aluminium panel 0.8 Layer thickness: 80 – 100 µm	mm AlMg1 H14 c	hromated				



	Cross Cut test (DIN ISO 2409)  Mandrel bending test (DIN ISO 1519)  Impact resistance (ASTM D 2794)	1) GT 0					
		1) ≤ 5 mm					
		1) front	≥ 5 Nm	(~44 Inchpound)			
		1) reverse	≥ 2.5 Nm	(~22 Inchpound)			
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm					
Resistance:	Tested on: Aluminium panel 0.8 mm AlMg1 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:	5/2/24		<u> </u>				

