

## TECHNICAL DATA SHEET

Article No.: 12752

Version: 5

### POLYFLEX® PUR-125-GU smooth "soft touch" Corona matt

<b>Description:</b>	Powder for outdoor use based on polyurethane. Gives matt surfaces with very good flow and good light and weather resistance. The product offers very good degassing properties. The coating offers a unique „soft touch“ feel. The crosslinking process produces no reaction byproducts. Stabilized against overcuring and discolouration in directly gas fired ovens.		
<b>Applications:</b>	Car parts, bicycles, machinery, equipment, apparatus, general outdoor use		
<b>Colours:</b>	Almost any colour with few limitations		
<b>Surface:</b>	Smooth		
<b>Gloss:</b>	Visually matt 5 – 20 Gloss units (60°)		
<b>Powder properties:</b>	<b>Particle size distribution</b> (HELOS H1708)	29 µm: 40 – 47 % 122 µm: 98 – 100 %	
	<b>Density</b>	1.4 – 1.8 g/cm <sup>3</sup> can vary depending on the colour; can be specified for each individual colour	
<b>Material consumption:</b>	g/m <sup>2</sup>	= density (g/cm <sup>3</sup> ) x film thickness (µm)	
<b>Coating thickness:</b>	<b>Recommended</b>	70 – 90 depending on the color	
	<b>Maximum</b>	120 µm	
<b>Application:</b>	The application can be made with all standard powder coating systems. To avoid surface defects, we recommend not mixing this type of powder coating with other powder coatings.		
<b>Packaging:</b>	- 20/25 kg cardboard box - 500 kg Octobox - 450/500 kg Big Bag Other packaging variations are available on request.		
<b>Curing time:</b>	<b>Recommended</b>	10 min. at 200°C object temperature	
	Object temperature	Minutes hold time min	Minutes hold time max
	210°C	7 min	13 min
	200°C	10 min	18 min
	190°C	15 min	25 min
	180°C	20 min	35 min
<b>Substrates:</b>	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:		
	<b>Aluminium</b>	A suitable wet-chemical pretreatment	
	<b>Steel</b>	Iron or zinc phosphating	
<b>Physical properties:</b>	Tested on 1): Aluminium panel 0.8 mm AlMg1 H14 chromated Layer thickness: 70 – 90 µm		
	Tested on 2) Steel panel galvanised and chromated according to GSB for hotdip galvanising 2) 50 – 80 µm		

<b>Cross Cut test</b> (DIN ISO 2409)	1) GT 0
	2) GT 0
<b>Mandrel bending test</b> (DIN ISO 1519)	1) ≤ 5 mm
	2) ≤ 12 mm
<b>Impact resistance</b> (ASTM D 2794)	1) front ≥ 5 Nm (~44 Inchpound)
	1) reverse ≥ 2.5 Nm (~22 Inchpound)
	2) front ≥ 5 Nm* (~44 Inchpound)
	2) reverse 2.5 NM* (~22 Inchpound)
<b>Erichsen cupping</b> (DIN ISO 1520)	1) ≥ 3 mm
	2) ≥ 3* mm

(\*) cracks; no peeling

<b>Resistance:</b>	Tested on: Aluminium panel 0.8 mm AlMg1 H14 chromated	
<b>Condensation water test</b> (DIN ISO 6270)	1000 h no blistering	Infiltration on the scratch track under 1 mm
<b>Salt spray test</b> (DIN ISO 9227)	1000 h no blistering	Infiltration on the scratch track under 1 mm
<b>Material Approvals:</b>	-	
<b>Repairs:</b>	For repairs (conveyors hangers touch ups) the repair kit, art. No 10006124 is available.	
<b>Post treatment of coated parts:</b>	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.	
<b>Storage:</b>	<b>Storage instruction:</b>	In the original containers, store in a cool and dry environment at max. 25 °C. No direct sun exposure.
	<b>Shelf life:</b>	18 months from the date of production under the mentioned conditions.
<b>Safety recommendations:</b>	<b>Lower explosive limit</b>	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	