## **TECHNICAL DATA SHEET**

Article No.: 14151 Version: 5	POLYFLEX <sup>®</sup> EP-	25-UN	r smooth	Corona gloss	
Description:	Ultra low bake powder for indoor use based on epoxy resins. Gives glossy surfaces with excellent adhesion. The flow and the surface quality are reduced due to the high reactivity. Compared to standard indoor products, this coating offers better chemical and solvent resistance.				
Applications:	Specially developed for the coating of steel pipes				
Colours:	Colours on request				
Surface:	Smooth				
Gloss:	Visually gloss				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	35 – 43 % 98 – 100 %		
	Density	1.3 – 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 thickness (μm)			
Coating thickness:	Recommended	100 – 140 depending on the colour tone			
	Maximum	200 μm			
Application:	The application can be made with all standard powder coating systems. To avoid surface de- fects, we recommend not mixing this type of powder coating with other powder coatings.				
Packaging:	- 20/25 kg cardboard box - 500 kg Octobox - 450/500 kg Big Bag		on voquast		
Curing time:	Other packaging variations of <b>Recommended</b> 7 min. at 130°C object temp		on request.		
	Object temperature	Minutes h	old time min	Minutes hold time max	
	150°C	3 min		6 min	
	140°C	4 min		8 min	
	130°C	7 min		12 min	
	120°C	12 min 18 min		18 min	
Substrates:	Steel/iron, hot-dip galvanizing, aluminium. The substrate to be coated must be free of oil, grease and oxidation products. We recommend the following pre-treatments:				
	Aluminium	A suitable wet-chemical pretreatment			
	Steel	Iron or zinc phosphating			
Physical properties:	Tested on 1): Steel panel 0.8 mm ST1405 pickled twice V1094 Layer thickness: 100 – 120 μm				
	Cross Cut test (DIN ISO 2409)	1) GT 0			
	Mandrel bending test (DIN ISO 1519)	1) ≤ 8* mm			
	Impact resistance	1) front	≥ 2.5 Nm*	(~22 Inchpound)	
	(ASTM D 2794)	/		( 22 menpound)	



	Erichsen cupping (DIN ISO 1520)	1) ≥ 5* mm		
	(*) cracks; no peeling with adhesive tape;			
Resistance:	Tested on: Steel panel iron phospated			
	<b>Condensation water</b> <b>test</b> (DIN ISO 6270)	500 h no blistering Infiltration on the scratch track under 1 mm		
	Salt spray test (DIN ISO 9227	240 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:	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 pow- der 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			