

TECHNICAL DATA SHEET

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Version: 11

POLYFLEX® PES-20-Power fine structure antigraffiti Corona silk gloss

Description: Powder for indoor use based on polyester and epoxy resins. Gives silk gloss surfaces with fine structure. Compared to standard indoor products, this coating offers significantly better chemical and solvent resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.

Applications: Preferred applications are in the sanitary, air-conditioning, food, kitchen, and hospital sectors, machinery and apparatus housings, metal furniture, kitchen appliances

Colours: Virtually all colors possible (including white and very light colors).

Surface: Fine structure

Gloss: Visually silk gloss

Powder properties:

Particle size distribution (HELOS H1708)	29 µm: 38 – 45 %
	122 µm: 98 – 100 %
Density	1.4 – 1.7 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** 70 – 90 depending on the colour tone

Application: The application can be made with all standard powder coating systems. Please observe our processing instructions for textured powder coatings VR001D. To avoid surface defects and to avoid changing the properties, 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

Other packaging variations are available on request.

Curing time: **Recommended**
20 min. at 180°C object temperature

Object temperature	Minutes hold time min	Minutes hold time max
200°C	10 min	13 min
190°C	13 min	18 min
180°C	20 min	28 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 or sweeping

Steel Iron or zinc phosphating

The pretreatments can be applied both by immersion and by spraying.

Physical properties: Tested on 1): Steel panel 0.8 mm ST1405 pickled twice V1094
Layer thickness: 70 – 90 µm

Cross Cut test 1) GT 0
(DIN ISO 2409)

Mandrel bending test 1) ≤ 10* mm
(DIN ISO 1519)

	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) ≥ 3 mm	
(*) cracks; no peeling with adhesive tape;			
Resistance:	Tested on: Steel panel iron phosphated		
	Condensation water test (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:	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.		
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