

## **TECHNICAL DATA SHEET**

DBS 918 340

Manadan a	POLYFLEX	5-20-Power sm	ooth antigraffiti Co-		
Version: 6	rona silk matt 40				
Description:	Powder for indoor use based on polyester and epoxy resins. Gives silk matt surfaces with good flow. Compared to standard indoor products, this coating offers significantly better chemical an solvent resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.				
Applications:	Preferred applications are in the plumbing, air conditioning, food, kitchen, and hospital settings, machine and apparatus housings, metal furniture, kitchen appliances				
Colours:	Virtually all colors possible (including white and very light colors).				
Surface:	Smooth				
Gloss:	Visually silkmatt				
	30 – 50 Gloss units (60°)				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 45 – 55 % 122 μm: 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 thickness (μm)			
Coating thickness:	Recommended	70 – 90 depending on the colour tone			
	Maximum	150 μm			
Application:	The application can be made with all standard powder coating systems. In order to avoid surface defects and not to change the properties, we recommend not mixing this type of powder coating with other powder coatings. Do not bake together with other powder coatings in the same oven.				
	same oven.				
Packaging:	same oven 20/25 kg cardboard box				
Packaging:					
Packaging:	- 20/25 kg cardboard box				
Packaging:	- 20/25 kg cardboard box - 500 kg Octobox	are available on request.			
	<ul><li>- 20/25 kg cardboard box</li><li>- 500 kg Octobox</li><li>- 450/500 kg Big Bag</li></ul>	·			
	<ul> <li>- 20/25 kg cardboard box</li> <li>- 500 kg Octobox</li> <li>- 450/500 kg Big Bag</li> <li>Other packaging variations</li> <li>Recommended</li> </ul>	·	Minutes hold time max		
	<ul> <li>- 20/25 kg cardboard box</li> <li>- 500 kg Octobox</li> <li>- 450/500 kg Big Bag</li> <li>Other packaging variations</li> <li>Recommended</li> <li>15 min. at 180°C object tem</li> </ul>	perature	Minutes hold time max 10 min		
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	- 20/25 kg cardboard box - 500 kg Octobox - 450/500 kg Big Bag Other packaging variations  Recommended 15 min. at 180°C object tem Object temperature 200°C	perature  Minutes hold time min 7 min	10 min		
Curing time:	- 20/25 kg cardboard box - 500 kg Octobox - 450/500 kg Big Bag Other packaging variations  Recommended 15 min. at 180°C object tem Object temperature 200°C 190°C 180°C Various metals or also as a temperature	perature  Minutes hold time min 7 min 10 min 15 min op coat, e.g. on a KTL prime	10 min 15 min		
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	Impact resistance	1) front	≥ 5 Nm	(~44 Inchpound)		
	(ASTM D 2794)	1) reverse	≥ 5 Nm	(~44 Inchpound)		
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm				
Resistance:	Tested on: Steel panel iron phospated					
	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:	-					
	DB		Decorative aluminum interior. Product qualification of Deutsche Bahn according to DBS 918 340			
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 f conditions.	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					

