

Polyamide-based coating powder for wire goods, automotive parts & industrial components

SCHAETTI COAT 5825 DC is a thermoplastic polyamide-based coating powder, specifically designed for the fluidized bed coating process. Even on relatively thin-walled parts, its good flow characteristics lead to homogeneous, smooth-flowing protective films which are distinguished in particular by outstanding anti-corrosive and mechanical properties as well as an excellent chemical resistance.

HIGHLIGHTS

- ✓ Very good resistance to greases, oils, fuels, water, salted water and many other solvents
- ✓ Low coefficient of friction
- ✓ Excellent abrasion resistance
- ✓ Noise and vibration resistance
- ✓ Good electrical resistance
- ✓ High toughness
- ✓ Elasticity and impact resistance
- ✓ Thermal resistance
- ✓ Low water absorption

TYPICAL APPLICATIONS

SCHAETTI COAT 5825 DC is particularly suitable for the corrosion protection of wire goods, automotive parts or components for the water treatment industry as well as various other industrial applications requiring high demanding mechanical and chemical properties.

COATING PROCEDURE

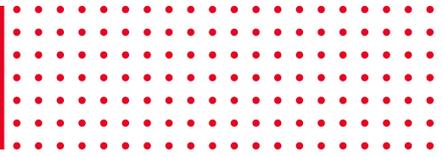
The surfaces to be coated should be free of grease and oil. A grit blasting step to remove rust and achieve a rugosity level of Rz 55-65 μm will significantly improve the adhesion. The use of a primer is recommended to optimize further on the adhesion. Please contact your Schaetti technical partner to get a specific support for the primer application process.

COATING PARAMETERS

SCHAETTI COAT 5825 DC is ready to use and easy to process. Its optimized particle size distribution ranging from 50 to 250 μm allows a perfect fluidization and does not produce dust. Based on the piece temperature, its geometry and dependent on the dipping time, a uniform non porous coating film of 250 up to 1.000 μm can be achieved.

- Pre-heating: 260-300°C and up to 400°C depending on the metal thickness
- Dipping time: 3-6 seconds for a coating thickness of 300-500 μm
- A further quenching step in water with surfactants will enhance the gloss





PHYSICAL AND CHEMICAL PROPERTIES

		Schaetti Coat 5825 DC
Colour		Colourless
Particle Size		50-200 µ
Melting Point	DSC	182 - 192 °C
Vicat Temperature	ASTDM D 1525	178°C
Density	ISO 1183	1,07
Shore Hardness	ISO 868	D 73
Melt Flow Rate	2,16 kg @ 200°C	21 g./10 min
Yeld Stress		40 MPa
Yeld Strain		7%
Abrasion Resistance, (CS 17, 500 g)	ASTM D1242	< 1 mg / 100 turns
Water Absorbtion	23°C / 50 % RH	0,7 %
	23°C / 96% RH	1,5 %
	100°C Immersion	2,1 %
Salt Spray Resistance	ISO 9227	>2000 hrs

	%	6 Months (20°C)
Acetone	100	++
Ammonia	concentrated	++
Anti Freeze		++
Battery Acid		+/-
Brake Fluid		++
Caustic Soda	50	++
Coffee (Ready for drinking)		++
Detergent Solutions		++
Diesel		++
Dishwashing Agents (Ready for use)		++
Fuel Oils	100	++
Glycol	100	++
Lemon Juice	10	++
Sea Water		++
Sulphuric Acid	10	+
Trichlorethylene	100	+/-
Water	100	++

++ Good resistance; + Resistant; +/- Limited resistance

The data presented in this data sheet represent typical properties and are based upon currently available knowledge. This information does not relieve the user of the need to confirm the data and suitability with their own tests. Schaetti assumes no liability. For questions concerning product quality and safety please contact the address provided below.

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