



The SXL series for efficient adhesive processes

NEW GENERATION OF CROSSLINKABLE SINGLE-COMPONENT ADHESIVES

With the SXL series, Schaetti sets new standards in adhesive bonding with respect to profitability, production efficiency and flexibility. The new series of crosslinkable single-component adhesive systems facilitates the bonding process, reduces the processing time and lowers the energy costs. Thanks to the low processing temperatures and the high adhesive force, the thermally crosslinkable adhesives are ideally suited for gluing sensitive substrates such as leather, textiles and foam materials.

The industry distinguishes between reactive adhesives and heat-activatable adhesives. Traditional reactive adhesives as used in many applications these days begin to soften at temperatures above their melting point. The crosslinking reaction already sets in during mixing, which requires very fast and careful working. Any interruption and/or disturbance of the bonding process may influence the quality of the adhesion. Heat-reactive adhesives on the other hand make processing much more facile due to their easy pre-applicability.

process, reduction of the processing time, minimization of fault-proneness, reduction of the energy costs and easy stackability of pre-coated parts. The powder, which is solid at room temperature, is not crosslinked until heat is applied. Then the thermoplastic powder turns into a duroplastic adhesive with outstanding adhesion properties.

145°C for the most varied applications. After crosslinking, the crosslinkable SXL series single-component adhesive systems retain their high adhesive force and elasticity even with strong heat generation.

Request documents at
info@schaetti.com

LOW MELTING RANGE, HIGH TEMPERATURE RESISTANCE

The products of the new SXL series combine the properties of thermoplastic adhesive powders with the advantages of reactive adhesives. Thanks to its low melting range of >145 or >170°C, depending on the content and the formula, the powder is ideally suited for gentle bonding of sensitive substrates such as leather, textiles and foamed materials. The adhesive powders are distinguished by high temperature resistance of up to 200° C, very good and permanent adhesion properties and high heat resistance. The separate processing is especially suited for bonding seat covers, roof linings, trunk fittings, doors and columns, front and rear shoe stiffeners, as well as for special applications in the clothing industry. Conversion of the production process on existing facilities is not necessary.

SXL SERIES – THE NEW ADHESIVE GENERATION

Technical advantages:

- Low processing temperatures
- Gentle bonding of sensitive substrates
- High temperature resistance (up to 200°C)
- Stable even under heat influence
- Permanent outstanding resilience
- Maximum adhesion even at high temperatures

Economic advantages:

- Temporal/spatial separation of the production process
- Pre-coated parts can be easily stacked and rolled
- Very easy processing, low fault-proneness
- Reduction of the production/processing time
- Reduction of energy costs
- Increased profitability and productivity



Caption: You will find the flyer "The new SXL generation of crosslinking adhesives" on our website under "Downloads"

AN ALTERNATIVE TO REACTIVE ADHESIVES

The new SXL series generation is a veritable alternative to reactive adhesives. The crosslinkable single-component adhesive systems can be applied on the objects even before bonding starts. The temporal and spatial separation of the production process provides decisive advantages with respect to product efficiency and productivity: easier bonding

MODULAR KIT PRODUCTS

The new adhesives of the SXL series are designed as modular kits. These are available on the basis of EVA 28/25, polycaprolactone, EAA, TPU as EVA 28/150 (hotmelt) with crosslinking temperatures starting at

COATING SOLUTIONS FOR MULTIFARIOUS APPLICATIONS

In the past ten years, the Schaetti Group has constantly expanded its product range of thermoplastic powder coatings. The vast product range covers many industries and application fields.

The product spectrum ranges from economic solutions on polyethylene (PE) and polyester (PES) basis up to high-quality polyamide (PA) for very sophisticated requirements. Customized solutions are often also in demand when it comes to meeting special requirements. The following table shows the properties of the respective product categories and provides information about the applied coating methods.

Thermoplastics and their properties

Coating	Properties	Anti-corrosion protection	Slippage	Abrasion resistance	Chemical resistance	UV and weathering resistance	Electrical insulation	Thermal resistance (°C)	Fluidized bed coating	Powder spray coating	Minicoating
LDPE, LLDPE Polyethylene	Maximum anti-corrosion protection, chemical resistance, good resistance to scratches and impacts, electrical insulation. Good repair possibilities. Temperature resistance from -30 °C to +70 °C. Inexpensive coating. One-layer system.	•••	••	••	••••	••(•)	••••	LDPE 60°C LLDPE 70°C	✓		
PES Polyester	Innovative material with good mechanical properties, such as abrasion resistance and excellent adhesion on metal without primer. High degree of weathering resistance, very well suited to outdoor use.	•••	••••	••••	••••	••••	••••	90°C	✓	✓	✓
PA Polyamide	For demanding applications. Very good abrasion resistance and glide qualities, very good mechanical properties (hard, flexible), electrical insulation.	•••	•••	••••	••••	••	••••	100°C	✓	✓	✓

POLYETHYLENE APPLICATIONS

LDPE-based and LLDPE-based coating powders are characterized by high corrosion resistance, chemical resistance and good insulation qualities. When used with special finishing or additives, they have good UV and weathering resistance, which means they are also well suited to outdoor use. The melting point is between 110 °C and 125 °C.

Polyethylene-based Series 1 Schaetti Coat powders have been specially developed for the long-lasting protection of metal surfaces against moisture and chemicals; with additives, a good weathering resistance can also be achieved. They are typically used in industrial, building and garden applications.

Product name	Schaetti Coat 1110	Schaetti Coat 1210	Schaetti Coat 1500
Chemical / mechanical properties			
Chemical basis	LLDPE	LLDPE	LLDPE
Chemical resistance	•	•	•
Corrosion protection	•	•	•
Electrical insulation	•	•	•
Abrasion resistance	•	•	
Impact strength	•	•	
Excellent adhesion	•	•	•
No primer required	•	•	
Easy to repair	•	•	
Different colours	•	•	
Others			EN3 Release

Physical properties			
Melting point (°C)	115 – 125	115 – 125	110 – 120
Hardness (Shore)	D56	D55	D52
Density (g/m ²)	< 1.0	< 1.0	< 1.0
Thickness (µm)	500 – 1000	400 – 600	400 – 600
Coating process	Fluidized bed coating	Fluidized bed coating	Rotolining, electrostatic spray coating



OUTDOOR APPLICATIONS

Garden furniture, metal fences and playground equipment are extremely susceptible to corrosion caused by influences such as condensation, rain, air pollution and road salt. A cost-effective solution for protecting metals are Polyester-based Series 3 coating powders of Schaetti. They have very good mechanical properties such as abrasion quality, durability and excellent adhesion, plus outstanding resistance against weathering, corrosion and UV radiation. The thermoplastic metal coatings are resistant to temperatures of up to 90 °C, have electrical insulation and are resistant to weak acids and alkalis. Due to their very good adhesive properties, the use of a primer is not necessary.



WIRE GOODS APPLICATIONS

Wire fences, dishwasher baskets and technical parts are constantly at risk from corrosion due to environmental influences and chemical substances. In order to protect them effectively, Schaetti has a range of tried-and-tested coating powders that offer maximum surface protection. Polyamide-based Schaetti coating powders have outstanding properties such as excellent slippage, high strength, stiffness, durability and mechanical flexibility. Coated surfaces have good resistance against chemicals and are virtually unsusceptible to stress cracks. Polyester-based Schaetti coating powders are a cheaper alternative to polyamide applications. They are characterized by good mechanical properties such as abrasion resistance and excellent adhesion, plus outstanding resistance against weathering and corrosion. They are suitable for various indoor and outdoor applications.



INDUSTRIAL AND COMPOSITE PARTS

Mechanical parts used in industry are often exposed to significant temperature fluctuations, weather conditions, chemicals and mechanical influences. For heavily used parts Schaetti has developed polyester-based and polyamide-based coating powders that ensure long-lasting surface protection. Polyamide-based coating powders are ideally suited to heavily used surfaces thanks to their abrasion and glide qualities, high strength, stiffness, durability and mechanical flexibility. The surface coatings have good resistance against chemicals and wear, and are virtually unsusceptible to stress cracks. Polyester-based coating powders are a cheaper alternative to polyamide applications. Thanks to their properties such as abrasion resistance, excellent adhesion, outstanding resistance against weathering, corrosion and UV radiation, they are suitable for various indoor and outdoor applications.

POLYESTER APPLICATIONS (SERIES 3)

Polyester-based Series 3 Schaetti Coat powders are a cheaper alternative to polyamide applications. They have very high corrosion resistance, UV resistance and abrasion resistance. The coatings are resistant to temperatures of up to 90 °C at continuous loads, have electrical insulation and are resistant to weak acids and alkalis.

Due to their very good adhesive properties, the use of a primer is not necessary. Series 3 Schaetti Coat powders are particularly suited to applications in industry, vehicle construction, water purification, outdoor furniture, small metal parts and applications with contact to foodstuffs.

Product name	Schaetti Coat 3820 MC
Chemical / mechanical properties	
Chemical resistance	•
Corrosion protection	•
Weatherability	•
UV resistance	•
Scratch resistance	•
Impact strength	•
Electrical insulation	•
Suitable for use with food-stuffs	•

Physical properties	
Melting point (°C)	165 – 175
Hardness (Shore)	D75
Density (g/m ³)	1.3 – 1.4
Colours	black, white, other colors on request
Thickness (µm)	100 - 500
Coating process	Fluidized bed coating, electrostatic spray coating, minicoating

POLYAMIDE APPLICATIONS (SERIES 5)

Polyamide-based Series 5 Schaetti Coat powders are suitable for coating highly stressed surfaces. They are characterized by good strength, stiffness, durability and mechanical flexibility. The surface coatings have good resistance against chemicals, abrasion and wear, and are virtually unsusceptible to stress cracks.

Series 5 Schaetti Coat powders are typically used in housing and mold construction, insulating parts, electronic building elements, dishwasher racks, water purification, vehicle construction and lingerie.

Product name	Schaetti Coat 5820
Chemical / mechanical properties	
Corrosion resistance	•
Chemical resistance	•
High strength	•
Stiffness	•
Durability	•
Abrasion resistancy	•
Flexibility	•
Low water absorption	•

Physical properties	
Melting point (°C)	182 – 192
Hardness (Shore)	D73
Density (g/m ³)	1.05 – 1.15
Colours	black, white, grey, other colours on request
Thickness (µm)	100 - 500
Available for the following coating processes	Electrostatic spray coating, Fluidized bed coating, Minicoating



BATTERY TRAYS, GALVANIZED RACKS

Acids, lyes and chemicals are the nemesis of any metal. Schaetti has developed two extremely effective coating powders for the optimal protection of metal parts and components exposed to chemicals.

Polyethylene-based Schaetti Coat 1110 for layer thicknesses of up to 1000 µm is especially suited for coating battery racks, industrial parts and metal containers. The coating powder ensures maximum anti-corrosion protection, very good electrical insulation, impact resistance and chemical resistance.

Polyethylene-based Schaetti Coat 1210 is especially suited for coating battery racks, galvanized racks and components exposed to chemicals with layer thicknesses of 400 to 600 µm. The highly modified PE formulation has very good chemical resistance, UV resistance and offers maximum anti-corrosion protection.



FIRE EXTINGUISHERS

The extinguishing agents used in fire extinguishers often contain water, phosphate and ammonium sulfate - a mixture that no metallic inner wall can survive unscathed over the long term.

Schaetti has developed a powder especially for the internal coating of fire extinguishers, which offers first-class protection when chemically aggressive extinguishing agents are used.

Schaetti Coat 1500 is a thermoplastic coating powder based on polyolefins that is suitable for all common internal coating processes. The powder allows a layer thicknesses of 400 to 600 µm and ensures a homogeneous, smooth-flowing protective film thanks to its good flow characteristics - even on parts with relatively thin walls. Schaetti Coat 1500 meets the requirements of the European DIN EN 3 standard.



SMALL MECHANICAL PARTS

Small metal parts such as for apparel, electrics and fastening technology are predominantly coated using the minicoating or whirl sintering processes. These processes require special, finely ground thermoplastic powders that also allow very thin layer thicknesses.

Polyester-based Schaetti coating powders allows layer thicknesses of 150 to 250 µm. They can be processed easily and ensure a homogeneous protective film thanks to their good flow characteristics. The powders offer high scratch and impact resistance, chemical resistance and high resistance against weathering and UV radiation.

Polyamide-based Schaetti coating powders are suitable for coating heavily used surfaces. The homogeneous protective film ensures outstanding resistance against corrosion and offers very good chemical and mechanical properties, such as high strength, stiffness, durability and flexibility.

DEAR BUSINESS PARTNERS,



Innovation combined with tradition is the foundation for long-term customer relations and steady growth. This year, Schaetti celebrated its 60th anniversary without any great fuss. Our apprentices organized a varied day for the employees that will long stay in our memories.

Anniversaries serve to reflect on past achievements and look forward to the future. The development of the Schaetti Group has always been characterized by innovation and perpetual renewal. Over the past 60 years, this philosophy has given rise to a whole host of solutions for a wide range of applications that we supply to industries around the globe.

The name Schaetti is primarily known within the industry for its thermoplastic adhesives. It is less well-known for its thermoplastic solutions for surface coatings. For almost ten years, we have developed and produced solutions for a broad spectrum of applications. In this issue, we will introduce you to our wide-ranging coating range. If you would like to find out more, please visit our website or send us an e-mail. We are there for you.

Sincerely,
Daniel Anliker

NEW SALES ACCOUNT MANAGER FOR AMERICA

In June 2017, Ruben Ordonez took over sales for Latin America with additional focus on our Transfer Print market segment.



Ruben has a Bachelor of Science in Chemical Engineering from the National University of Bogota Colombia, and has many years of experience in the adhesive industry. Most recently he worked as Sales Manager for Latin America for a hot melt company servicing the label, medical and industrial tape markets.

Ruben Ordonez is married and has two children. They reside in Huntersville, North Carolina.

NEW SALES AGENT FOR SPAIN

The Schaetti Group is expanding its distributor network: At the beginning of October, Antonio Ferrer-Dalmau took over responsibility for sales in Spain. Antonio Ferrer-Dalmau has many years' experience in the textile machinery industry. In addition to Schaetti, he has also represented other well-known brands such as SSM, Andritz and Mecatext in Spain. We wish Antonio Ferrer-Dalmau every success in his new post and look forward to working with him. The address of our new partner in Spain can be found on our website in the "Distributor Partners" section.



CORPORATE ANNIVERSARY EMPLOYEE EVENT



This summer, Schaetti AG celebrated its 60th anniversary. The apprentices organized a colorful day for the company employees including a visit to the

airport and a spy hunt through the city of Zurich stopping off in traditional Zurich restaurants.

