

The SXL series for efficient adhesive processes

NEW GENERATION OF CROSSLINKABLE SINGLE-COMPONENT ADHESIVES

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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.

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 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.

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.

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 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 .

SXL series – 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

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