Car trunks

- Laminating adhesives for car trunks
- Diverse applications
- Different material combinations

Jowatherm-Reaktant® 612.11
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Jowat Klebstoffe

Jowat adhesives for the lamination of diverse materials for car trunks

In the automotive industry, trunks are of major significance. Not only are they helpful for transporting groceries, baggage and other items, trunks are also a car compartment where weight reduction plays an essential role. To meet the requirements for a lightweight construction, modern trunk floors are increasingly manufactured from a honeycomb board foamed with polyurethane (PU). Compared to the wood-based materials used in the past, these boards weigh less and are extremely stable.

The weight of the boards is reduced to a minimum due to the cardboard honeycomb structure which forms the inner core of these boards. In the manufacturing process, the honeycomb is covered on top and bottom with glass fibre mats and foamed with PU (GMPU). In this process step, separating agents may be used to ensure that the boards can be removed easily from the moulds after the foaming process. These separating agents may lead to bonding failures when the board is laminated with the surface material, generally carpets made from polyester (PES). In some cases, the boards may be sanded to improve adhesive wetting. The application methods used by processors are very diverse. The adhesive can be sprayed on the carrier substrate, or alternatively be applied by slot nozzle, by roller or by spraying on the carpet.

In most cases, the carrier substrate is not laminated inline but in a second process step and the adhesive is reactivated by heat before press laminating. The edges may be folded either directly in the same press or in a separate edgefolding unit. A high initial strength of the adhesive is particularly important in edgefolding operations, especially to meet the demanding requirements of complex parcel shelves.

Parcel shelves may also consist of laminated GMPU boards. Compared to trunk floors, they are laminated however with a PES textile on the top and a PES nonwoven on the underside. The lamination processes are similar to each other and the adhesive is generally applied by roller.

Trunk cover systems are also laminated. The retractable cover box is wrapped with a PVC foil, and the handle is laminated on the top and on the underside with a PVC foil. **Jowatherm-Reaktant®** adhesives are used in this application and reactivated later for bonding.

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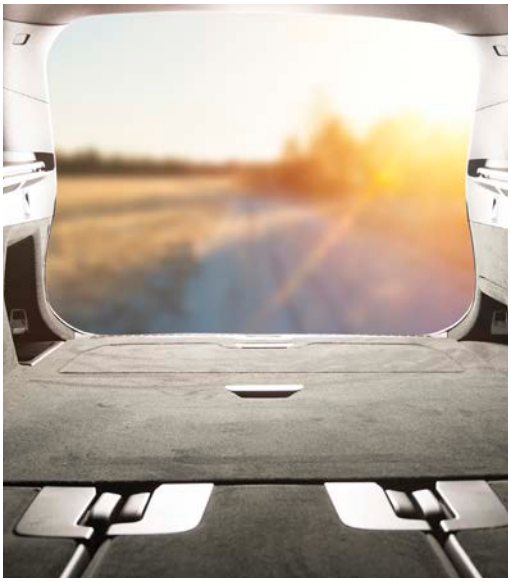
For the manufacture of trunk cover systems: Lamination of wood fibre boards with PVC foil. Fast blocking strength in precoating.

Processing temperature	approx. 140 °C
Viscosity at processing temperature	approx. 12,000 mPas
Appearance	white

Characteristics: fast blocking strength, low reactivation temperature



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For the manufacture of trunk floors: material combination carpet with GMPU board. Usually, the adhesive is sprayed on the GMPU board, then reactivated and laminated. The adhesive is characterised by high green strength.

Processing temperature	approx. 150 °C
Viscosity at processing temperature	approx. 32,000 mPas
Appearance	yellowish opaque

Characteristics: good adhesion to GMPU boards, high green strength

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For the manufacture of trunk floors: material combination carpet with GMPU board. Usually, the adhesive is applied by slot nozzle on the carpet. The cuts are then punched or cut from the reel material. The adhesive contains UV marker for traceability in the manufacturing process, and is characterised by high green strength.

Processing temperature	approx. 140 °C
Viscosity at processing temperature	approx. 32,000 mPas
Appearance	white opaque

Characteristics: suitable for precoating

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For the manufacture of trunk floors: material combination carpet with GMPU board. Usually, the adhesive is applied by slot nozzle on the carpet. The cuts are then punched or cut from the reel material. The adhesive characterised by high green strength.

Processing temperature	approx. 140 °C
Viscosity at processing temperature	approx. 40,000 mPas
Appearance	light yellow opaque

Characteristics: suitable for precoating

Note: The products listed only represent a limited selection of the available product portfolio. Our service and consultation team from Sales and Product Marketing will be pleased to provide specific information, to select the product suitable for your process.

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