



Thanks to Basotect® G travel on Turkish buses is quieter

Case Study

The leading Turkish bus manufacturer Otokar uses BASF's special foam Basotect® G /G+ as sound absorber in the engine compartment for its bus models, providing a more quiet and comfortable surrounding for travel passengers. To design and produce the various acoustic parts, the company partners with the foam manufacturer Teknofoam.

Heat resistance is crucial for any foam used in bus engine compartments where up to 213 kW and temperatures of around 120 °C regularly occur. The flame-retardant foam Basotect® is perfectly suited to meet those challenging requirements. It archives high sound absorption figures in the medium and high frequency range and additionally withstands temperatures up to 240 °C. Furthermore, it provides a great design freedom which has been an important criterion for Murat Hapci, deputy manager of Teknofoam: "Using our computer controlled cutting, sawing and milling techniques, we could configure Basotect® to the precise size and two-dimensional or three-dimensional shape according to the position of the engine, the cooling system or the exhaust system". Within the engine compartments, Basotect® is covered by a specially designed polyurethane film and a nonwoven fabric layer to protect it from water and oil.

Zafer Dogruyol, purchasing manager at Otokar, describes another advantage of the versatile BASF foam: "The Basotect®-based solution is lighter than glass or mineral wool, which has been the common insulation material in recent years. The lower weight leads to a reduction in fuel consumption and CO₂ emission. In addition, Basotect® meets all European standards for noise insulation and fire safety. This is particularly important for Otokar because we also export our buses."

