



Innovative load floor technology combines fiber-reinforced sandwich panels with an easy to clean, wear-resistant surface

Innovating together: Covestro and Valley Enterprises, a Gemini Group company, have created synergies in a new honeycomb structure overmolding technology. The application, known as U-SKIN, combines Baypreg® and Bayflex® material solutions from Covestro to create a lightweight, wear-resistant polyurethane surface in rigid molded composite parts. The new process integrates Baypreg® and Bayflex® technologies to manufacture automotive interior and exterior parts with a more protective surface and a custom-fit design. With the potential to be used in various automotive interior and exterior applications, U-SKIN technology will keep your automotive development at the forefront of industry trends such as lightweighting.

ABOUT BAYFLEX®

Bayflex® is a specially developed family of polyurethane elastic systems that has made an impact across the automotive industry. This technology from Covestro is specially-designed for the production of parts and surfaces demanding wear, friction and aesthetics benefits without sacrificing weight and mechanical properties. Bayflex® systems are versatile and can be combined with other materials, offering complete design freedom.

ABOUT BAYPREG®

Baypreg® is a "sandwich" composite produced with polyurethane and reinforced with specialized materials. The honeycomb structure has been recognized by the market as extremely lightweight yet excellent in loadbearing capacity.



- Allows for strong, lightweight parts with soft-touch surfaces.
- Easy to clean surfaces thanks to Bayflex®.
- Integral B-side production process.
- High traction factor compared to traditional carpet minimizes the risk of cargo sliding during the ride.
- Durable wear resistance and friction properties.