



introduces

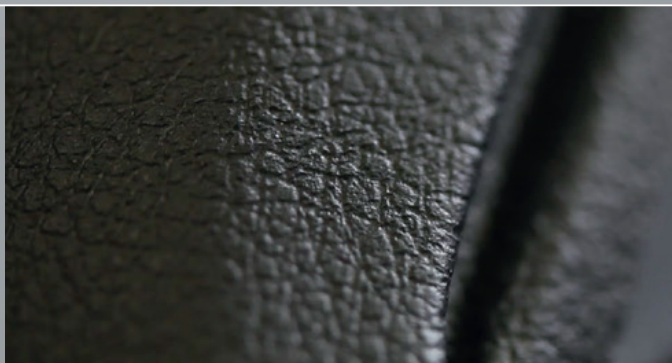
EcoCover



a new spray skin process

Persico Automotive has developed EcoCover, a new spray skin process that achieves amazing results in a wide range of colours. It can even create faux stitching!

During the EcoCover process, a release agent is first applied to the mould. Then, using in-mould coating, the paint is sprayed on, followed by a polyurethane (PU) material. The technique allows for very lightweight leather-like skins with design freedom and extremely small positive radii.



Thanks to the PU, the pieces have a pleasant feel and do not become brittle at low temperatures.

Additional benefits of the process are very long tool life, material savings and lower energy usage.

Persico offers a **full production system** for dashboard instrument panels. In addition to the EcoCover process, we can provide skin cutting SYSTEMS, back-foaming TOOLS (in partnership with WIS Tooling) and Tool-Carriers and punching tools and machines.

EcoCover Pilot Plant / Prototype Area

Key Features

- 20 full instrument panels per day
- Climate-controlled booths with full control of temperature and relative humidity
- Manual trolley movement that can be easily automated
- Manual tool cleaning area
- Material storage and preparation area
- Electric tool carrier for back-foaming

Key Benefits

- PU material - NO PVC - NO brittleness at low temp.
+ NO plasticizer migration due to ageing and
NO visible airbag cut line after 6-7 years
- Design freedom
- Extremely small radii
- High grain definition
- More pleasant feel
- Lightweight - over 20% less weight
- Lower material cost (very thin aliphatic PU layer)
- Little run-off
- Very long tool life
- Machine-block tools possible
- Easy multi-colour masking
- Low energy consumption

Steps

Release Agent Application

- Manual application in pilot plant
- Automatic robotic electrostatic application on production line

In-mould coating (IMC) with Aliphatic PU

- UV-stable / long-term durability
- Accurate hardness and haptics settings
- Wide range of matt and glossy colours

Flash-off

Aromatic PU spraying

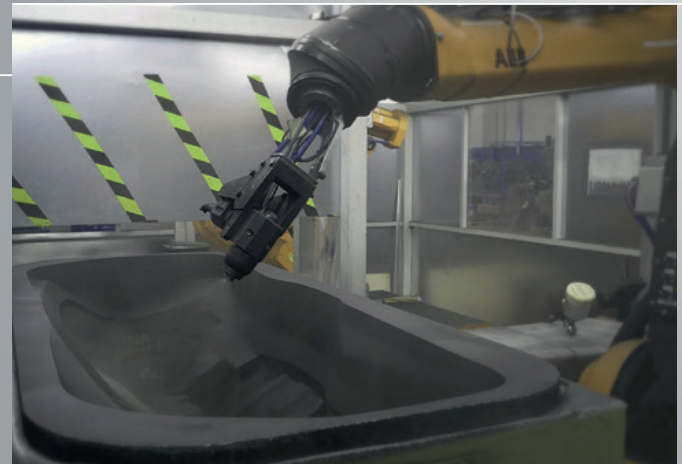
- Less density
- Lower cost
- Perfect back-foam interface


Hennecke PU-Spray System

- Start and stop technology - NO over-spray
- Air-supported high-pressure spray technology
- Homogeneous thickness

Curing

Manual Demoulding



Persico has collaborated with **Hennecke** Polyurethane Technology 
on testing the innovative EcoCover process.

