



Case Study

Pilatus PC-12

VOC-free contact adhesive

Mounting interior trim without solvents

The PC-12 is the largest and also most successful single-engine turboprop of the Pilatus aircraft family. Its flexibility in deployment as a passenger, transport, ambulance, or surveillance plane imposes complex requirements on the interior elements. Advanced technology, design, comfort, safety, and cost-effectiveness are key issues. In its manufacturing plant, Pilatus emphasizes environmentally friendly raw materials and processes. For this reason, the company wanted an alternative to the solvent-based adhesive it previously used to attach foam, leather, textile, and epoxy resin elements inside the cockpit and airframe.

Environmentally friendly solution by Collano

Collano developed a VOC-free water-based contact adhesive that easily measures up with solvent-based adhesives in terms of green strength, final adhesion, and heat resistance. The new contact adhesive even outperforms the specified temperature resistance level of 70 °C for instrument fascia coverings (extreme high-tensile bonds). A key advantage: with the new adhesive, corrections are easily possible. It is applied like an ordinary contact adhesive but when cured can be heat-reactivated so that open and dry areas can be post-processed without the need to apply more adhesive. Another benefit: the application volume is much smaller than is the case with a solvent-borne adhesive because the new product has a higher concentration of solids and can be applied or sprayed more evenly.

Smart bonding. With the objective of making customers successful with intelligent bonding solutions, Collano develops and markets specialty adhesives for innovative applications in construction, labels, tapes, packaging, protective adhesive systems, textiles and foams. Collano Adhesives is passionately committed to new bonding technologies that improve quality, productivity, and reliability. Collano Adhesives is a member of the Collano Group which employs 328 persons worldwide and generates sales of EUR 85 million.



High-tensile bonds inside the PC-12's interior. «The fine, uniform spray pattern produces attractive material surfaces,» says Martin Gabathuler, head of the Pilatus interior completion team. He is enthusiastic about the new Collano® TAC 9566 contact adhesive.

Technical data in brief

Project:	Interior trim inside a PC-12
Year:	2007
Partner:	Pilatus Aircraft Ltd., Stans, Switzerland
Application:	Cladding applied to interior composite panels
Country:	Switzerland
Product:	Contact adhesive Collano® TAC 9566
Properties:	Fast but correctible curing after spraying, long open time (up to 30 minutes), VOC-free.