



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.

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Collano Adhesives: Innovative specialty adhesives for applications in Construction, Composites, Label/Tape/Packaging, Protective Adhesive Systems, Technical Textiles, Apparel, and Foams. Collano Adhesives belongs to the Collano Group which employs 344 persons around the world and generates sales of CHF 131 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.