

SEALANTS ADHESIVES COATINGS



Transportation



Insulating Glass



Aerospace

*THE FLEXIBLE ENGINEERING
ADHESIVE & SEALANT SOLUTION*



SEALANTS, ADHESIVES AND COATINGS DIVISION

Serving the Aerospace Industry...



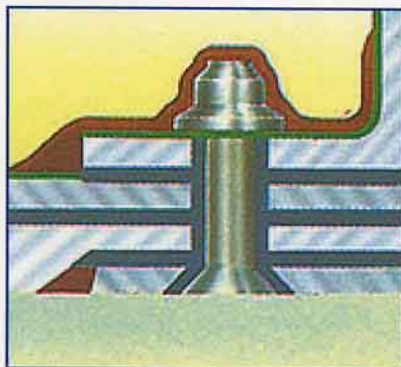
Maintaining air pressure, preventing the passage of fluids, bonding together different types of materials, protecting surfaces and ensuring electrical continuity are the main applications where our sealants, adhesives, coatings and encapsulants have played an essential role.

Protecting against corrosion, resistant to fuels, abrasion and extreme temperatures, our products made of **polysulphide, permapol, polyurethane, fluorocarbon or silicone** are marketed in Europe under the trade mark **PR** and manufactured under licence from **PRC de Soto (PPG)**, world leader in this technology.

These products are used in all programs of the aerospace industry and within the MRO's since 1954. Our main accounts **Airbus, Boeing, Bombardier, Casa, Dassault, Embraer, EADS and Alenia** for commercial aviation, military platforms as **Mirage, Tornado, F16, Rafale and Eurofighter 2000** and all European helicopters.

A full range of products for :

- Pressurised cabin sealants with/without corrosion inhibitor.
- Electrically conductive sealants.
- Windshield and canopy sealants.
- Potting and moulding compounds.
- Adhesion promoters and primers, cleaners.
- Structural bonding.
- High temperature products.
- Fuel tank sealants.
- Coatings.



AEROSPACE...

Serving the Insulating Glass Industry ...

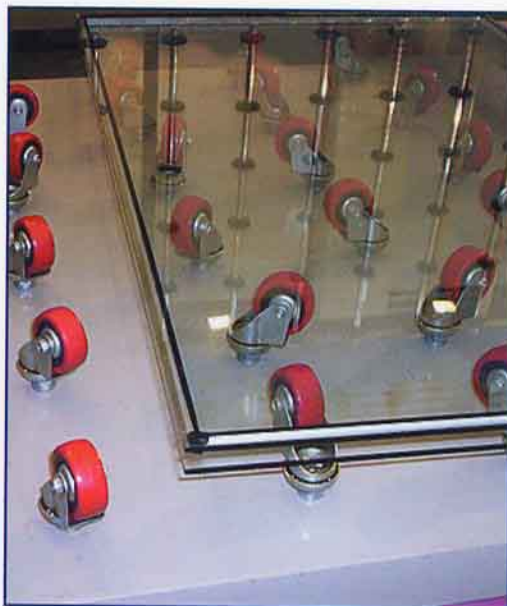
Since 1960, LJF has developed an extensive range of polysulphide, polyurethane and butyl products for primary and secondary sealing.

These products conform to very strict international standards, including the European EN 1279, and to specific customer requirements. Through its international representation, LJF provides dedicated technical and commercial support to the insulating glass industry.



LJF IG sealants - applications and performances :

- Structural bonding of glass and spacer.
- Glass to frame bonding.
- Sealing the IG unit.
- Easy processing and handling.
- Low moisture vapour transmission.
- Low gas permeability.
- Good recovery (elastic deformation).
- Resistant to water, UV, ozone and chemicals.
- Consistent properties during service life.
- Low temperature flexibility.



Serving the Automotive Industry...

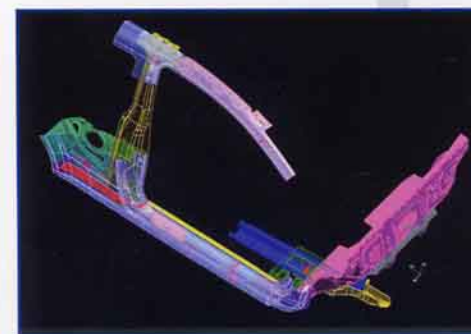
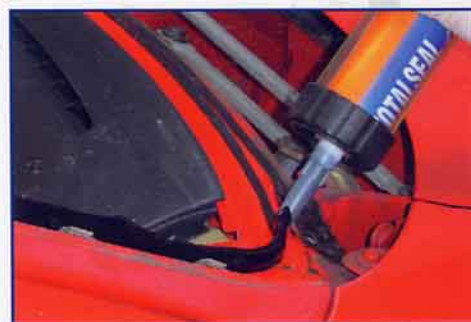
LJF offers a range of high performance adhesives, sealants, primers and cleaners specially developed for car, bus and truck manufacturers, along with products designed for the glass replacement market. These are supplied in a range of pack sizes to suit individual applications.

Approved by most OEM's, LJF uses the CATIA or Unigraphics CAD system and mechanical testing (on samples or in crash tests) to qualify its products. New products such as 2K PU for the structural bonding of composites, or expandable sealants for sound deadening or shock absorption, are developed to comply with safety and comfort specifications requested by customers.

LJF Totalseal key features and benefits :

- Direct glazing for windscreens and other fixed glass.
- Structural bonding of composite panels and components.
- Expandable sealants for noise and energy absorption.
- Floor, panel and roof bonding.
- Seam sealing and watershield foil.
- Body - in - white products :
 - . Antiflutter (door, bonnet & boot lid)
 - . Hem flange bonding
 - . Spot weld sealer

TRANSPORTATION...



RESEARCH AND DEVELOPMENT



In our markets, our company is recognised as a leader in the formulation and production of sealants, adhesives, coatings and encapsulants based on polysulphide, polyurethane, polybutadiene, butyl, polychloroprene, nitrile, acrylic, fluorocarbon, silicone, epoxy, MS polymer, etc...

For more than 40 years, our range has been complemented by PRC products for the aerospace industry manufactured under licence from PRC de Soto (PPG). Since 1960, with the brands Totalseal, Bostik and Novatherm, we have supplied high performance adhesives and sealants to customers worldwide in the automotive and insulating glass markets.

LJF products meet the requirements of the specifications requested by our customers, including : AMS - BMS - AIMS - SAE - DIN - ISO - BS.

LJF is developing environmentally-friendly products by using advanced technologies such as isocyanate free PU adhesives.

More than 150 engineers :

- R&D lab in France : fuel tank sealants, structural adhesives, expandable sealants.

- R&D lab in Germany : glass bonding and sealing, antifrutter, chemical analysis.

- Hutchinson R&D Center : chemical and physical analysis, numerical simulation, environmental and mechanical testing.



LJF is certified :

ISO 9001/2000
ISO/TS 16 949/2002
ISO EN 9100
PRI NADCAP

Environmental System :
ISO 14001

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TOTALSEAL

Our commitment to technological excellence has earned our company a worldwide reputation as suppliers of speciality chemical products and services to aerospace and defence, insulating glass, automotive and many other high technology industries.

LJFm Headquarters and main plants

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