

**PLIOGRIP ® RESINS &
CHEMICALS PVT LTD**

**EPOXY PUTTIES & REPAIR
SYSTEMS**

MAINTENANCE SOLUTION

FOR AEROSPACE INDUSTRIES

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Adhesives and Syntactics

Pliogrip® is a global leader in the discovery, manufacture and marketing of products that industry needs to push forward the boundaries of innovation, and our expertise in structural adhesives is second to none.

This is particularly true of the aerospace sector, where we supply an innovative and growing range of bonding systems, and as a major supplier to this sector, our products conform to the world's highest performance standards.

Our products are designed in partnership with industry leaders to meet specification requirements, providing clean, easy to use, increasingly efficient process technology solutions.

These state-of-the-art cost-effective adhesive and syntactic systems are particularly suited in today's industry for joining lightweight structural components and for joining an increasing range of dissimilar materials.

Product range for the Aerospace industry

Pliogrip®

- One and two component epoxy adhesives
- Excellent impact and vibration resistance
- Fast cure adhesives for high productivity assembly and repair

Pliobond®

Two component epoxy adhesives

- Self-extinguishing grades
- Multipurpose
- Ideal for manufacture and repair of aircraft interior and exterior components

Pliourane®

- Two component polyurethane adhesives
- Flexible for bonding engineering plastic substrates
- Self-extinguishing

Pliosert®

- Preformed, cured epoxy inserts
- Easy-to-use method of reinforcing honeycomb structures
- Inserts comply with IS standards regarding void content and workmanship

Pliocast®

- Epoxy syntactics for honeycomb edge sealing, reinforcing and insert potting
- Self-extinguishing grades
- Low density, good strength
- Manufacture and repair of sandwich structures
- Good moisture resistance

Adhesives

Product reference	Consistency	Features
PLIOBOND ® 1559A/B	paste	<ul style="list-style-type: none"> • rapid cure, handling strength in 10 mins • excellent for repair • ideal for low temperature maintenance conditions
PLIOBOND ® 1567A/B-40	paste	<ul style="list-style-type: none"> • toughened and resilient • temperature resistance up to 120°C following 1 hr @ 120°C cure
PLIOGRIP ® 420A/B	High viscosity liquid	<ul style="list-style-type: none"> • excellent peel and shear • toughened and resilient system with good moisture resistance
PLIOGRIP ® 2013	Thixotropic paste	<ul style="list-style-type: none"> • metallic appearance • good chemical resistance • good gap filling up to 5 mm
PLIOGRIP ® 2015	Thixo paste	<ul style="list-style-type: none"> • excellent gap filling properties up to 1cm • toughened system with high shear and peel strength
PLIOURANE ® 5774A/B	semi paste	<ul style="list-style-type: none"> • excellent thermoplastic adhesive • excellent peel strength • bonds metals and plastics with minimal surface preparation
PLIOBOND ® 156A/B	Paste	<ul style="list-style-type: none"> • excellent for surface smoothing and finishing porous surfaces • good electrical properties • good adhesion properties • excellent wipe-on smoothing paste for repairs

Laminating Resins

Product reference	Mixed viscosity	Features
PLIOGRIP ® 501A/B	3-4 Pas	<ul style="list-style-type: none"> • room temperature curing • temperature resistance up to 120°C. Note: Mechanical properties given for a glass fabric reinforced laminate
PLIOCAST ® 52A/B	4 Pas	<ul style="list-style-type: none"> • 65°C cure schedule • excellent hot/wet properties. Note: Mechanical properties given for a carbon fabric reinforced laminate
PLIOCAST ® 50A/946	3.5 Pas	<ul style="list-style-type: none"> • quick setting for small repairs • available with hardeners 9816 and 9449 for long and intermediate work life • self-extinguishing note: Mechanical properties given for a glass fabric reinforced laminate

Syntactics

Product reference	Consistency	Features
PLIOCAST ® 1610	Paste	<ul style="list-style-type: none"> • long work life at room temperature • ultra low density
PLIOCAST ® 1614ATF	Paste	<ul style="list-style-type: none"> • 8 hour work life • good strength up to 180° C • low density • self extinguishing • extrudable
PLIOCAST ® 927	Thixotropic paste	<ul style="list-style-type: none"> • very high compressive strength • excellent temperature performance up to 200°C • extrudable • self-extinguishing
PLIOCAST ® 87005A/B-80	paste	<ul style="list-style-type: none"> • soft paste, non-sag after application • pale cream colour suitable for interiors • self-extinguishing • ultra low density
PLIOCAST ® 1637A/B-1	paste	<ul style="list-style-type: none"> • ultra low density • extrudable, non-flow after application
PLIOGRIP ® 252A/B	paste	<ul style="list-style-type: none"> • low out-gassing • self-extinguishing • good surface finish
PLIOCAST ® 1617A/B	paste	<ul style="list-style-type: none"> • soft paste, easy to handle • high strength, room temperature cure
PLIOCAST ® 1631A/B	soft paste	<ul style="list-style-type: none"> • easy to apply from 1:1 mix cartridges • good compression strength • extrudable • self-extinguishing • cream colour

Pliosert ®

PREFORMED, CURED EPOXY INSERTS

- **Performance properties:**

Fabricated from one of a comprehensive range of Pliocast ® syntactic to meet your specification requirements

- **Improved productivity:**

Pliosert ® epoxy inserts can reduce the time required to reinforce honeycomb sections by up to 95% by eliminating weighing, mixing, gelling and curing procedures.

- **Excellent quality:**

Minimal void content compared to conventional techniques results in greater integral strength and optimized compressive performance.

- **Weight gain:**

The precision obtained by using Pliosert ® epoxy inserts reduces the quantity of reinforcing material to be used, hence reducing part weight.

- **Handling advantages:**

Precured Pliosert ® epoxy inserts minimize end-user exposure to reactive materials during the reinforcing procedure.