

Pliogrip™ structural adhesives

7700 cartridge series

Pliogrip™ 7700 adhesive systems are high performance, two-component polyurethane adhesives for bonding, sealing and repairing materials such as GRP, CFRP, SMC, RIM, RTM, TPOs, wood and coated or painted metals.

All systems are tested using stringent automotive test requirements for cars and trucks. The high strength, ambient curing adhesive systems are resistant to exposure to elevated temperatures, moisture, fuels, most solvents and chemicals.

The cartridge systems have been designed for ease of dispensing with both hand-held and pneumatic applicator tools. When used as repair material, the adhesive system can easily be sanded in a short time while maintaining other property balances.



Benefits

- Fastest ambient cure response in the industry (at a given open time)
- Product thixotropy allows vertical application and offers excellent gap filling capabilities
- Comparable thin film cure and bead cure; cure acceleration by heat possible
- Sandable and paintable
- Easy to mix and apply due to 1:1 mix ratio

Performance

- OEM approved. Used at OEM manufacturing sites and automotive Tier1 suppliers
- Resistant to elevated temperatures, moisture, fuels, most solvents and chemicals
- Imperceptible shrinkage – very low risk of surface distortion effects

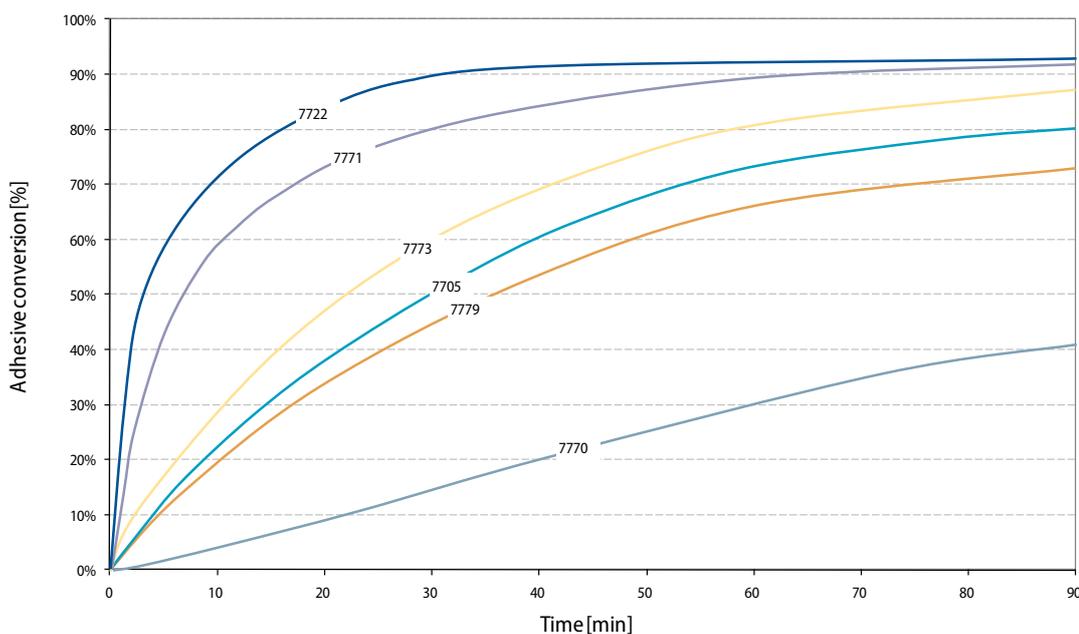
Quality

- Longest cartridge shelf life in the industry
- No settling of the single components
- ISO 9001, QS 9000
- 100 % reactive, no Volatile Organic Components (VOCs)
- No Cadmium, Mercury, Lead, Chromium, Nickel or Chlorine
- Not regulated regarding transportation

Available sizes:

- 63 g (50ml)
- 280g (215ml)
- 800g (630ml)
- Side-by-Side
- Special packaging optional

Adhesive cure (conversion) at 23°C



Depending on the parts size and shape handling strength is obtained at a fractional conversion of app 40-50%. Process strength (milling, sanding, painting) is reached at app 60-70%.

The adhesive fractional conversion is calculated from the adhesive's kinetic parameters obtained from DSC analysis. It is temperature depended therefore conversion rate can be significantly increased by applying heat to the joint.

Cartridge range

By selection of different curative systems, the Pliogrip 7700 technology is tailored for many applications. Refer to our technical data sheets for further detail.

Pliogrip Product	Open Time (23°C)	Sanding Time (23°C)	Characteristics
7722	30 seconds	5 minutes	Fastest curing 2-part urethane known to be on the market. This product can often replace cyanoacrylate "tacking" adhesives.
7771	1.5 minutes	10 minutes	Extremely fast curing product. For small, quick, durable bonding and repair jobs. The use of this product yields fast turnaround due to early sanding and painting capability.
7773	3.5 minutes	30 minutes	Fast curing product. For small, quick, durable bonding and repair jobs that require more time than offered by Pliogrip 7771.
7705	5 minutes	45 minutes	Intermediate cure profile product. Predestinated for mid-sized parts (e.g. spoilers) or bonding of multiple small parts in one application step.
7779	10 minutes	1 hour	Intermediate cure profile product. Allows ample time for application and bonding of larger parts. Easy to sand in about an hour without heat. With heat enhancement, cure times can be accelerated.
7770	35 minutes	2.5 - 3 hours	Long open time product for bonding or sealing large parts, or when repositioning is desirable. Greater speed of cure may be realized by using an oven or heat gun.
7779L	10 minutes	1,5 hours	Self-leveling adhesive system. No sag resistance. Useful for filling cracks, channels, reaching hidden seams, filling areas not accessible to direct application of a bead or wetting fiberglass matting material for plastic reinforcement.

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PC-11751

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