



Penloc® GT Series
2C performance structural adhesives

System properties

- Acrylic-based structural adhesives
- Adhesives for wide range of materials
- Dispensing bead-on-bead or with static mixer
- Wide range of applications – from trade to mass production

Advantages

- Rapid curing
- Multipurpose
- Easy handling
- Ideal for automated application
- No mixing necessary
- High strength and stability

The Penloc® GT series: Two-component performance structural adhesives for superior strength

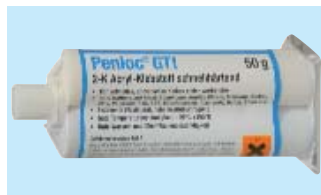
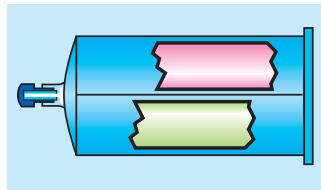
For bonding numerous material combinations

The acrylic-based high-performance structural adhesives of the Penloc® GT series are ideal for bonding materials such as metal, glass, ceramics, wood and many plastics (except PE and PP).

Available in a range of packing types and sizes from 10 g to 2 × 2500 g and for various applications and dosing methods, they are easy to handle and versatile in use.

The convenient double cartridges are especially well suited for on-site use and manual application.

For industrial environments, dispensing can be automated with the Panacol-Elosol dispensing devices, for example our pressure vessel and innovative dispensing guns.



Adhesive properties

- Suitable for bonding a wide range of materials
- Fast, flexible, versatile
- Wide range of applications – from trade to mass production
- Bonds quickly and reliably, even without mixing
- Universal use and simple handling
- High strength and stability
- Cures at room temperature
- Short curing times

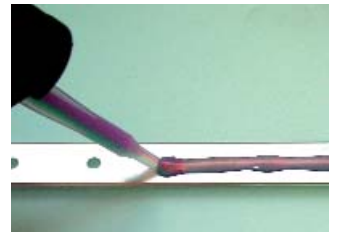
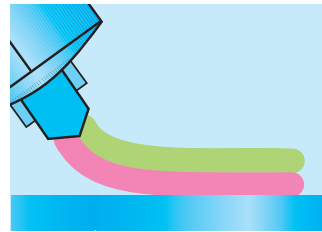
Typical applications

- Weather-resistant attachment of metal lettering, for example to stone façades
- Bonding corner brackets to window frames.
- Bonding car roof racks
- Bonding sleeves (lipstick, etc.)
- Sensor enclosures
- Electric motor magnets
- Cosmetics outer packaging (perfume flacons, etc.)
- Bonding metals with subsequent heat treatment (GTH-T)
- Before powder coating (GTH-T)
- Bonding PMMA display cabinets

Easy application

- Directly from the cartridge – bead-on-bead
- Industrially with the static mixer
- Precise dispensing with static mixer and dispensing needle

Bead-on-bead application



Most commonly, the adhesive is dispensed directly from the double cartridge or bead-on-bead with a dispensing gun. More precise dispensing is possible with a dispensing tip.

Dispensing with static mixer

For bonds with gap sizes > 0.3 mm. Suitable for use as filler, for example for closing holes. For maximum transparency and strength.

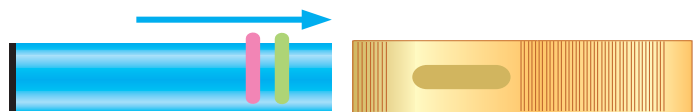


Precise dispensing with static mixer and needle

The needle is simply fitted to the static mixer and allows precise dispensing and exact positioning of the dispensed adhesive on the workpiece.



The two components can also be applied separately to a workpiece, so that curing sets in only after joining.



Penloc® GT Series

Penloc®	GTI	GTR	GTR-VT	GTH-T	GTI-S
Typical applications	All-purpose adhesive for steel, aluminium, chrome, brass, stone, concrete, wood, etc.	Structural and repair adhesive for metals, ceramics, glass and plastics	Gap-filling structural adhesive, also bonds oily surfaces, can be used for vertical workpieces	Bonds metals, such as steel, stainless steel, in combination with ceramics and FR4, also before powder coating	Bonds plastics, metals and plastics with metallised surface
Viscosity (mPa / 25°C)	5000	4000	25000	8000	5500
Colour, part A/part B	Green/pink	White/blue	Light yellow/blue	Brown/green	White/blue
Handling strength, min.	5 – 7	5	5	5 – 10	4 – 5
Final strength, hrs.	4 – 6	4 – 6	4 – 6	4 – 6	12
TSR ¹⁾ steel (MPa)	27	21	21	28	22
TSR alu. (MPa)	22	20	16	23	19
TSR st. steel (MPa)	21	–	20	27	20
TSR PC (MPa)	*5	2	2	–	4
TSR ABS (MPa)	*8	3	–	–	6
Temp. stability (°C)	–30 to +150	–20 to +120	–20 to +120	–30 to +180	–30 to +120
Cartridges	10 g, 50 g, 380 g	50 g, 380 g	50 g	50 g	–
Big packs	1 kg, 5 kg	1 kg, 5 kg	5 kg	1 kg, 5 kg	1 kg, 5 kg
Characteristics	Oil- and fuelresistant, strong odour, high force transmission under dynamic load	Multipurpose, rapid curing, easy handling	Thixotropic, non-running, gap-filling, bonds also oily surfaces	High thermal stability, excellent water resistance, good impact resistance, extremely high strength	Mild odour, well suited for automation from large pack sizes, flexible bonds

¹⁾ Combined tension and shear resistance

* Material breakage: the bond strength is greater than the test sample's internal strength

The Penloc® GT series: available in suitable packing sizes for specific applications



The products of the Penloc® GT series are also available as a convenient starter kit

Contents:
 3 white 50 g cartridges
 from the Penloc® GT series
 1 dispensing gun
 10 microstatic mixers
 1 user's manual



Dispensing bead-on-bead
 with the dispensing gun



Dispensing devices and accessories

We also supply suitable dispensing devices for your specific applications as well as a comprehensive range of accessories for this product series.



Head GTI/MC/M

Dispensing gun for two-component products, mixing ratio 1:1, adhesive application with mixer or bead-on-bead"



Head GTI/MC/M

Controlled 10 litre pressure vessel with complete emptying of content



TD 1000/2

High-quality dispensing system with diaphragm valve; allows especially precise dispensing



Dispensing gun 50 g
Manual dispensing gun for 2C products, 50 g cartridge



Dispensing gun 380 g
Manual dispensing gun for 2C products, 380 g cartridge



Static mixer
For 10 g cartridges



Dispensing tip
For 50 g cartridges, bead-on-bead dispensing



Static mixer
For 50 g cartridges



Dispensing needle
For precision dispensing, for example with static mixer



Dispensing tip
For 380 g cartridges, bead-on-bead dispensing



Static mixer
For 380 g cartridges

You can find further information about our comprehensive range of products, accessories and dispensing equipment on the Internet under www.panacol.de

	Dispensing	Curing	UV-adhesives	Conductive adhesives	Potting		



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