



Technical Data Sheet

Sep. 18, 2020

C-POXY 5

Description: **C-POXY 5** is a general purpose structural-unfilled-fast setting epoxy adhesive. Recommended for bonding metal, ceramics, stone, glass, concrete, wood, fiberglass and many plastics such as polyester, ABS, rigid PVC (not suitable for PTFE-PP-PE and rubbers).

Physical properties:

	<i>PART A (Resin)</i>	<i>PART B (Hardener)</i>
Composition	Epoxy resin	Polymercaptan
Viscosity (25°C -cps)	14000-18000	12000-14000
Color	Colorless/cloudy	Colorless/clear
Specific Gravity @ 25°C	1.19	1.12
Mixing ratio (volume)	1	1

Curing behavior:

At 25°C:

Pot life (time detected using 6g total mass)	4-6 minutes
Cure Time (functional)	25-35 minutes
Mixing color	Colorless-clear
Shear strength (ISO4587)	11-15 N/mm²
Hardness (Shore D)	75-80
Gap to fill	0.1-2.1 mm

Chemical Resistance (after 24 hours from curing):

Chemical	Temperature	After 100 hours	After 500 hours
Motor oil	40°C	EX	EX
Water	25°C	EX	EX
Cooling Gas	25°C	EX	EX
Gasoline	25°C	EX	EX

Directions for use:

Part A and B need to be mixed thoroughly in the correct volume ratio for 1 minute before use.

Gel time of the mixed product is 4-6 minutes at room temperature.

Parts requiring bonding should be assembled and kept close without any stress. Assembling is continued until full curing takes place.

Excess of the product can be cleaned with Acetone or any solvent-based cleaner compatible with the substrates to bond.

For best results, it is recommended to scratch (if possible) the surface, then gently degrease and clean the excess material off the area.

Note: Shear strength will increase roughly to 25-27 N/mm² if bonding parts are allowed to cure 15 minutes at room temperature 25°C(77°F) followed by 2 hours cure at 100°C(212°F) (if possible).

Storage: Product must be kept in a cool and dry room at 10°C to 25°C.

Shelf life: Minimum two (2) years in unopened packaging at +5°C / +27°C.

Safety and handling: Consult Material Safety Data Sheet (MSDS) before use.

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