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## Technical Data Sheet

### Permatex® Cold Weld

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#### PRODUCT DESCRIPTION

Permatex® Cold Weld is a two-part, fast curing, high strength, general purpose epoxy that can be drilled, threaded, and machined once fully cured. It repairs, fills and bonds to iron, steel, brass, bronze, aluminum, and copper and it is resistant to most shop fluids including fuels, oil, water, and solvents.

#### PRODUCT BENEFITS

- No heating required
- Holds in 10- 15 minutes
- Useable in 30 minutes
- Good moisture resistance
- Withstands extreme temperatures
- Non-flammable

#### TYPICAL APPLICATIONS

- Cracked transmission cases
- Chipped heads
- Rear end castings
- Cracked blocks
- Cracked intake manifolds
- Damaged keyways
- Split stampings

#### DIRECTIONS FOR USE

1. Before starting, make sure your work area is protected from accidental spills. Surfaces must be clean, dry and free of grease and oil.
2. Roughen smooth surfaces to be repaired with sandpaper.
3. Apply in ventilated area. Vapors may irritate eyes and nose.
4. Squeeze out equal amounts of bonding agent and curing agent.
5. Mix together thoroughly until color is uniform.
6. Apply immediately to both surfaces and press together. Remove excess glue at once.
7. Allow bond to set for 10 minutes before moving.
8. After 16 hours, typical shear strength on steel is 3000 PSI.
9. Curing time may be slower in cold weather.

#### For Cleanup

1. Cleanup must be completed before curing is complete. Use acetone or mineral spirits for cleanup.
2. Clean hands with Permatex® Fast Orange® hand cleaners.

#### PROPERTIES OF UNCURED MATERIAL

	Typical Value
Chemical Type	Epoxy, amine resins
Appearance	Resin – black Hardener - beige
Odor	Mild
Specific Gravity (mixed)	1.79
Flash Point, TOC, °F	>400

#### TYPICAL CURING PERFORMANCE

Permatex® Cold Weld has a gel time of 4 to 6 minutes, fixture time of 10 to 15 minutes with a full cure in 16 hours.

#### TYPICAL ENVIRONMENTAL RESISTANCE

Temperature Resistance	Typical Values
Minimum, °C(°F)	-51(-60)
Continuous, °C (°F) Maximum	149(300)
Intermittent, °C (°F) Maximum	177(350)

#### Chemical / Solvent Resistance

The product retains effective properties when in contact with water, oil, fuels and solvents.

#### GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as an adhesive for chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).**

#### ORDERING INFORMATION

Part Number	Container Size
14600	2-1 oz. tubes, carded

#### STORAGE

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° and 28°C (46° and 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

NOT FOR PRODUCT SPECIFICATIONS.

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT PERMATEX, INC., TECHNICAL SERVICE DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS FOR YOUR SPECIFIC APPLICATION.  
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