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Technical Data Sheet

Permatex® Steel Weld® Epoxy

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PRODUCT DESCRIPTION

Permatex® Steel Weld® epoxy is a premium two part, high strength, metal-filled epoxy adhesive system. Permatex® Steel Weld® epoxy can be drilled, threaded, and machined once fully cured. It repairs, fills and bonds most metal surfaces. It is resistant to most shop fluids including fuels, oil, water, and solvents.

PRODUCT BENEFITS

- Will not shrink
- No clamping needed
- Non-flammable
- Dark grey color
- Impact resistant
- Water resistant
- · High temperature resistant
- Useable in 30 minutes

TYPICAL APPLICATIONS

Aluminum

- Iron
- Brass
- Stainless Steel
- Chrome
- Steel
- Copper
- Cast

DIRECTIONS FOR USE

- 1. Protect work area from accidental spills.
- 2. Surface must be clean, dry and free of grease & oil.
- 3. Roughen surfaces with sandpaper or other abrasives.
- 4. Use a sharp blade to cut off the tips of both nozzles.
- Depress plunger on syringe or squeeze out of tubes equal amounts of resin and hardener. Thoroughly mix resin and hardener on a clean discardable surface for at least one (1) minute or until uniform in color.
- Apply to surfaces being repaired. Assemble parts immediately. Remove excess epoxy immediately.
- Allow bond to set for the fixture time before handling or moving. Product fully cures in 24 hours.

NOTE: Permatex[®] Steel Weld[®] will not bond polyethylene and polypropylene plastics.

For Cleanup

- For any cleanup, use isopropyl alcohol before the material is allowed to dry.
- Clean hands with Permatex[®] Fast Orange[®] hand cleaner or soap and water.

PROPERTIES OF UNCURED MATERIAL

Typical Value Epoxy and Mercaptan/Amine Chemical Type Resins Mix Ratio 1:1 Appearance Resin Black Off white/White Hardener Odor Mild Specific Gravity 1.75 - 1.85 Flash Point, TCC >300°F Viscosity Paste

CURING PROPERTIES

	Working Time	<u>Fixture Time</u>
84109	4 – 5 minutes	8 – 10 minutes
84209	4 – 5 minutes	8 – 10 minutes

Final color Grey

Temperature range -60°F to +300°F(Continuous)

+350°F(Intermittent)

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	
84109	4 min. Steel Weld® Epoxy,	
	0.84 fl. oz. dual syringe, carded	
84209	4 min. Steel Weld® Epoxy,	
	2 – 1oz. tubes, carded	

STORAGE

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° to $28^\circ C$ (46° to $82^\circ F$) 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.

NOTE

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