



Technical Data Sheet

Permatex® Anaerobic Flange Sealant

INDUSTRIAL

PRODUCT DESCRIPTION

S.I.N.: 834-300

Permatex® Anaerobic Flange Sealant is a single component, medium strength, thixotropic, anaerobic sealant that cures rapidly. The product cures when confined in the absence of air between close fitting metal flanges. It provides a tough, resilient, solvent and temperature resistant seal that flexes with flange movement caused by vibration, pressurization or thermal changes.

PRODUCT BENEFITS

- Seals all surface imperfections
- Seals most common automotive fluids
- No cracking or shrinking during cure
- Eliminates costly retorquing operations
- Single component system
- Non-corrosive to metal parts

TYPICAL APPLICATIONS

Used as a form-in-place gasket for pumps, thermostats, compressors, transmission housings, and axle covers.

DIRECTIONS FOR USE

1. Surfaces to be sealed should be free of grease, oil and dirt. Use Permatex® Brake and Parts Cleaner to remove oil. Use Permatex® Gasket Remover to remove old gaskets.
2. Apply manually to one side of flange, making sure a continuous bead is applied.
3. Assemble parts.
4. Torque to normal specifications.
5. Parts may be returned to service in one hour.

For Cleanup

1. Wipe off excess material with a clean cloth.
2. Clean hands with Permatex® Fast Orange® hand cleaner or soap and water.

For Disassembly

1. For smaller assembled parts, heat part to 400°F to 450°F.
2. Use cautious, light prying or tapping motion to loosen the parts. Repeat heating/prying sequence as needed.
3. For larger assembled parts use prying/cleaving tools in combination with a light hammer and cautiously tap and pry the sides of the part to break the gasketed surfaces loose.
4. Once parts are disassembled, allow all surfaces to cool to room temperature.
5. Use Permatex® Gasket Remover to remove dried anaerobic material.

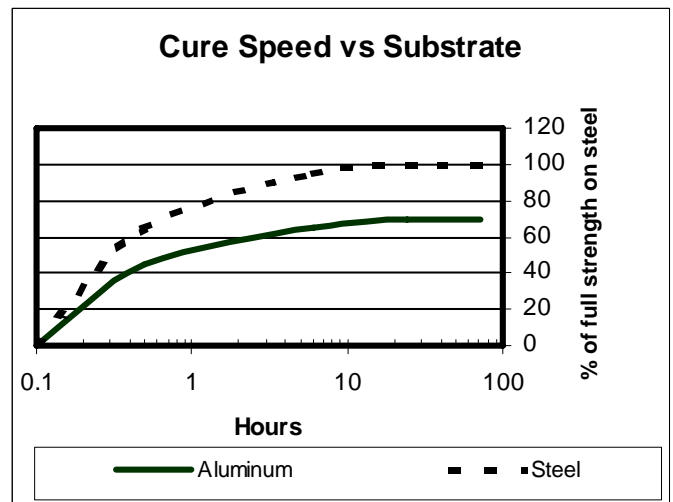
PHYSICAL PROPERTIES

	Typical Value
Chemical Type	Methacrylate Ester
Appearance	Gel
Color	Purple
Odor	Acrid
Specific Gravity	1.10
Viscosity cP	275,000/950,000 Thixotropic
Gap cure (inch)	0.010 diametral (Unprimed) 0.050 diametral (Primed)
Cure Speed (Hours)	1 - 12 (Unprimed) 15 Minutes - 2 (Primed)
Flash Point (°F)	>200

TYPICAL CURING PERFORMANCE

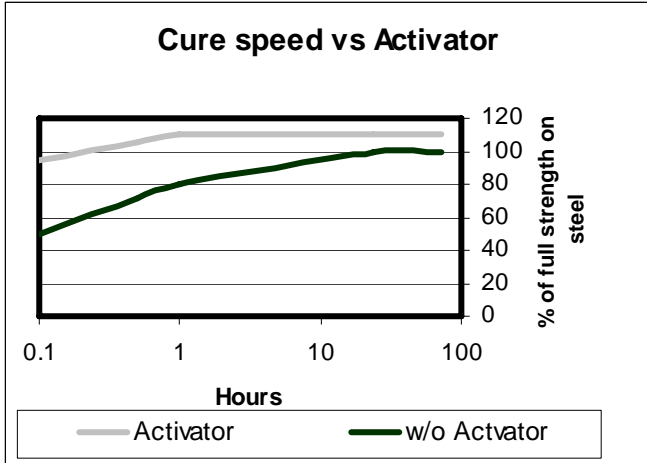
Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the shear strength developed with time on grit blasted steel lap shears compared to different materials and tested according to ASTM D 1002.



Cure Speed vs. Activator

Where cure speed is unacceptably long, or large gaps are present, applying activator to the surface will improve cure speed. The graph below shows the shear strength developed with time using Surface Prep Activator on grit blasted steel lap shears and tested according to ASTM D 1002.



NOTE

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Chemical / Solvent Resistance

Aged under conditions and tested at 22°C(72°F). Substrate: Grit blasted steel lap sheers.

	Temp	500hr	1000hr
Heat aged	150°C		90%
Motor oil	125°C		100%
Antifreeze	87°C	60%	
Gasoline	23°C	70%	
Trans Fluid	23°C	100%	

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant 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
51531	50 ml. tube
51580	300 ml. cartridge

STORAGE

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

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