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Technical Data Sheet

Permatex® High Temperature Anaerobic Flange Sealant

INDUSTRIAL

PRODUCT DESCRIPTION

Permatex® High Temperature Anaerobic Flange Sealant is a high temperature sealant specifically engineered for making or dressing gaskets in rigid assemblies. It is able to withstand temperatures up to 400°F (204°C) and fills gaps up to 0.020 " (primed) and permits clamping loads to be maintained for strong, leakproof assemblies.

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

Seals close fitting joints between rigid metal faces and flanges. Particularly suited where maximum temperature and chemical resistance is required.

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. Reassemble parts. Flanges should be tightened as soon as possible after assembly to avoid shimmying.
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

S.I.N.: 834-300

Chemical Type

Appearance

Color

Odor

Specific Gravity

Viscosity cP

Brookfield HBT

TC @ 2.5 rpm

@ 20 rpm

Gap cure (inch)

Cure Speed (Hours)

Flash Point (°F)

Typical Value

Dimethacrylate Ester

Gel

Red

Acrid

1.08

288,000

50,000

0.010 diametral (Unprimed)

0.020 diametral (Primed)

1 - 12 (Unprimed)

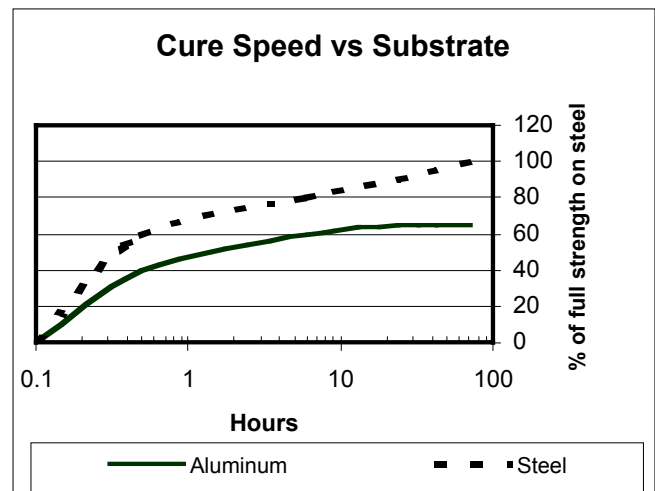
15 Minutes - 2 (Primed)

>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.



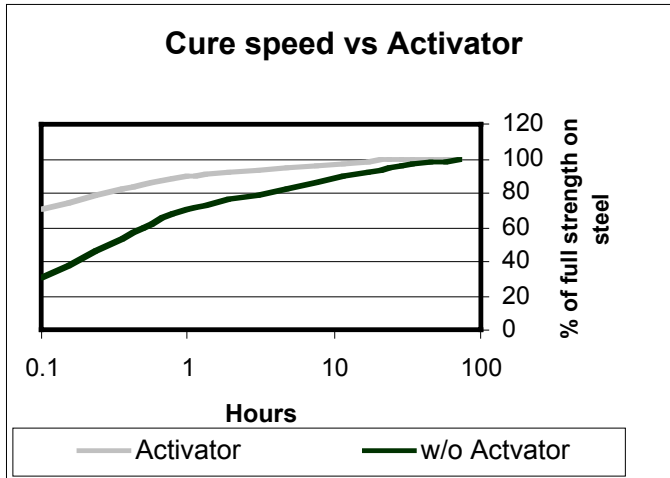
Cure Speed vs. Activator

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.

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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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
51031	50 ml. tube

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.

NOTE

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