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#### PRODUCT DESCRIPTION

Permatex® PneumaticHydraulic Sealant is a single component, high viscosity anaerobic pipe sealant material. The product cures when confined in the absence of air between close fitting metal surfaces. Permatex® Pneumatic/Hydraulic Sealant locks and seals high-pressure fluid power systems with tapered fittings.

S.I.N.: 834-300

#### PRODUCT BENEFITS

- Contains no fillers or particles
- Will not contaminate fluid systems
- Will not foul valves
- Will not clog fine filters and screens
- Has excellent solvent resistance
- Easy disassembly

#### TYPICAL APPLICATIONS

- Hydraulic and pneumatic line fittings
- Brake fittings
- Transmission fluid fittings
- PTO fittings
- Air conditioning fittings
- Servomechanisms

#### DIRECTIONS FOR USE

1. Shake container well before using.
2. Clean surfaces to be sealed with Permatex® Brake & Parts Cleaner.
3. Twist off white overcap and snip nozzle to desired size opening.
4. Apply sealant to male threads in a sufficient quantity to fill all engaged threads.
5. Assemble and wrench tighten.
6. This product works best in thin bond gaps.
7. Very large thread sizes may create large gaps which will affect cure speed and strength.
8. Parts may be returned to service in four (4) hours when cured at 75°F.

#### For Cleanup

1. Wipe off any material outside the joint with a dry cloth.
2. Clean hands with Permatex® Fast Orange® hand cleaner or soap and water.

## Technical Data Sheet

### Pneumatic/Hydraulic Sealant

INDUSTRIAL

#### PHYSICAL PROPERTIES

	Typical Value
Chemical Type	Methacrylate ester
Appearance	Purple liquid
Odor	Arid
Specific Gravity	1.20
Viscosity (cP)	14,000
Flash Point (T.C.C.) °F	>200

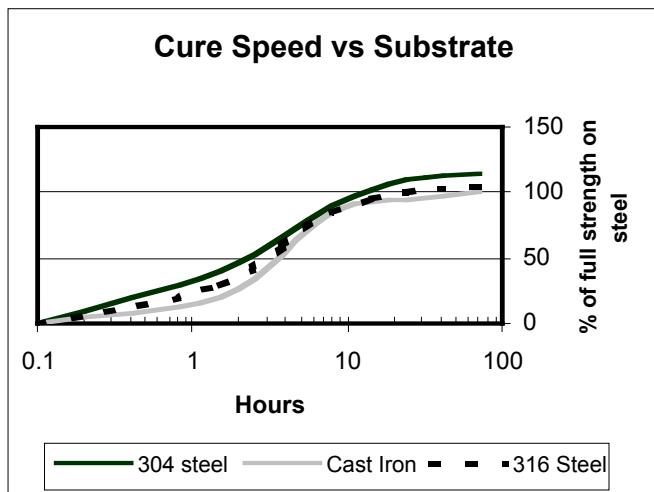
#### TYPICAL CURING PERFORMANCE

##### Cure speed vs. substrate

The rate of cure will depend on the material used. Permatex® Pneumatic/Hydraulic Sealant will react faster and stronger with **Active Metals**. However, **Inactive Metals** will require the use of an activator (Surface Prep) to obtain maximum strength and cure speed at room temperature.

Active Metals	Inactive Metals
Soft Steel	Bright Platings
Iron	Anodized Surfaces
Copper	Titanium
Brass	Zinc
Manganese	Pure Aluminum
Bronze	Stainless Steel
Nickel	Cadmium
Aluminum Alloy	

The graph below shows the breakaway strength developed with time on 1/2" NPT fittings compared to different materials.



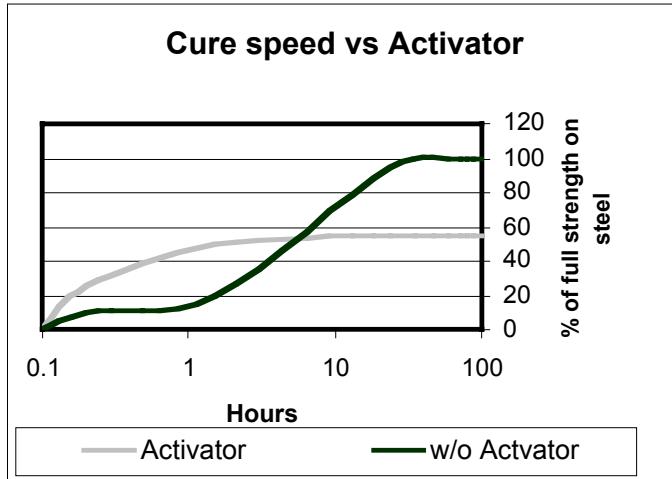
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THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT PERMATEX, INC., TECHNICAL SERVICE DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS FOR YOUR SPECIFIC APPLICATION.  
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**Cure speed vs. activator**

Where cure speed is unacceptably long, or large gaps are present, applying an activator (Surface Prep) to the surface will improve cure speed. The graph below shows the shear strength developed with time on 1/2" NPT fittings using Permatex® Surface Prep Activator.

**CURED INFORMATION**

(Cured 24 hours @ 75°F)

Pressure Resistance (psi)	10,000
Temperature Range °F	-65 to +300
Breakaway torque (in.-lb.)	15
Seal to operating pressures	4 hours

**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
54550	50 ml. bottle

**STORAGE**

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