

TECHNICAL DATA SHEET



Cyclo Industries, Inc

401 Maplewood Dr • Jupiter, FL 33458 • 561-775-9600

Pneumatic/Hydraulic Sealant

C-54550

PRODUCT DESCRIPTION

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

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 a compliant Cyclo® 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 soap and water.

PHYSICAL PROPERTIES

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

CURED PROPERTIES (Cured 24 hours @ 75°F)

	Value
Pressure Resistance (psi)	10,000
Temperature Range °F	-65 to +300
Breakaway torque, N*m (in.-lb.)	2 (18)
Seal to operating pressures	4 hours

TYPICAL CURING PERFORMANCE

Cure speed vs. substrate

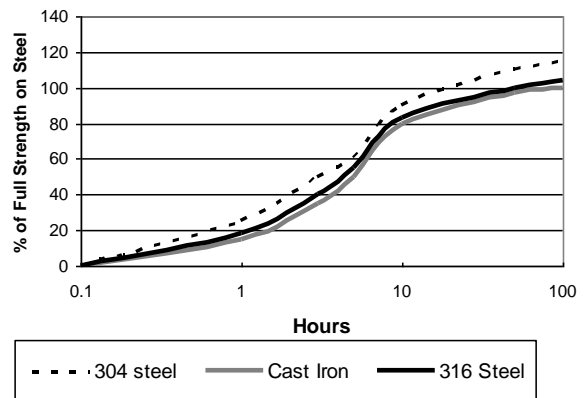
The rate of cure will depend on the material used. Cyclo® Pneumatic/Hydraulic Sealant will react faster and stronger with **Active Metals**. However, **Inactive Metals** will require the use of an activator (Cyclo® C-930 Surface Preparation) to obtain maximum strength and cure speed at room temperature.

Active Metals Inactive Metals

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

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

Cure Speed vs Substrate



Cure speed vs. activator

Where cure speed is unacceptably long, or large gaps are present, applying an activator (Cyclo® C-930 Surface Preparation) to the surface will improve cure speed. The graph

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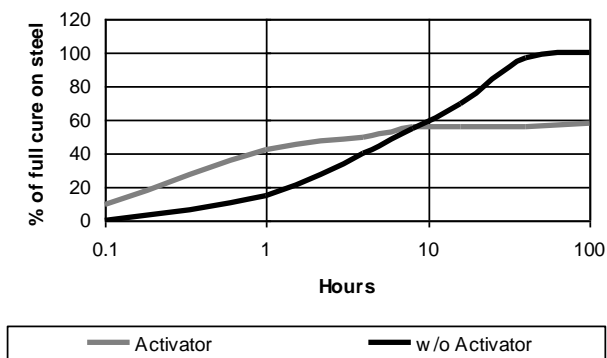
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below shows the shear strength developed with time on 1/2" NPT fittings using Cyclo® C-930 Surface Preparation.

Cure Speed vs Activator



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
C-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.

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