

Product Description

Vibra-TITE 541 High Strength Retaining Compound is a single part, high viscosity, high strength anaerobic resin used for bonding rigid assemblies of all types. This material can be used effectively to increase the strength of most mechanical assemblies.

Typical Applications

Vibra-TITE 541 can be used in a broad variety of applications such as:

- Locks keys and splines
- Eliminates backlash in worn assemblies
- Locks bearings in place, preventing spin out
- Bonds rotor to shaft in low horsepower motors
- Locks bushings and sleeves in housings and on shafts
- Restores the fit to worn assemblies or out-of-tolerance parts

This high viscosity product is not recommended for extremely close or interference fits. For large gaps, use of Vibra-TITE primer to ensure a fast, full cure is advisable.

Instructions for Use

Ensure parts are clean, dry and free from oil and grease.

Procedure for Application

Product is normally hand applied from the bottle onto parts.

Compatible Primers

Vibra-TITE 612 (Primer T) can be used. The use of primers can cause loss of strength and performance should be tested.

Properties of Uncured Material

| | |
|--|-----------|
| Chemical Type | Anaerobic |
| Appearance | Green |
| Toxicity | Low |
| Solids | 100% |
| Viscosity @ 25°C, cP Brookfield RVT, Spindle 3 @ 20 rpm | 1370 |
| Specific Gravity | 1.1 |

Performance of Cured Material

| | Typical Values |
|-------------------|------------------------------------|
| Fixture Time | 15-20 min @ 72°F |
| Full Cure Time | 24 hrs @ 72°F |
| Temperature Range | -60°F to 350°F (-51°C to 177°C) |

Shear Strength

Cold rolled steel 3200 psi

Static shear strength was measured on cylindrical parts with a 0.002" diametrical clearance.

Environmental and Fluid Resistance (Shear strength values)

| | Typical Values |
|-------------------------------------|-----------------------|
| Heat age | 105% |
| Engine oil @ 150°C | 100% |
| Brake fluid @ 150°C | 82% |
| ATF @ 150°C | 80% |
| 50/50 water/ethylene glycol @ 120°C | 80% |
| Water @ 100°C | 80% |
| Gasoline @ 25°C | 100% |
| Diesel fuel @ 25°C | 100% |
| Ethyl Alcohol @ 25°C | 95% |

Presentation

Bottles.....10ml, 50ml, 250ml and liter

General Information

Storage

Product should be stored in a cool and dry location at temperatures between 14°F (-10°C) to 86°F (30°C). Shelf life is 2 years from date of manufacture when stored at 72±8°F (22±4°C).

Note

The high strength of this material may require heat to disassemble.

Health & Safety in use

IRRITANT: Contains Methacrylate Esters which may irritate eyes, respiratory organs and skin. In case of contact with the skin, wash immediately with plenty of water.