

## Chemical Compatibility Guide For: Drain Protector™, Conical Plug and Barrel Patch

**NOTICE:**

This report is offered as a guide and was developed from information which, to the best of PSI Urethanes, Inc. knowledge, was reliable and accurate. Due to variables and conditions of application beyond PSI Urethanes, Inc.'s Control, none of the data shown in this guide is to be construed as a guarantee, expressed or implied. PSI Urethanes, Inc. assumes no responsibility, obligation, or liability in conjunction with the use or misuse of the information.

Due to the nature of soft urethanes, the physical properties of these products may change with exposure to certain environmental conditions like temperature, humidity, and UV Radiation. Please inspect the stored product regularly to ensure it is in a usable state. Do not store or use in temperatures exceeding 120 degrees Fahrenheit (49 degrees Celsius) for an extended period of time. Typical life expectancy of urethane products is about five years.

Sealing properties may be compromised when exposed to chemicals that may be absorbed, causing swelling.

Degradation may result from chemical incompatibilities. Discoloration or degradation may occur.

Periodically inspect products when in use for proper seal.

Chemical Name	Chemical Class	Degradation Rating	Seal Rating	Overall Compatibility Rating	Comments
Acetone	Ketone	1	0	Good	No effect on Urethane layer.
Chlorine Standard Solution (1000ppm)	Halogen	0	0	Good	
Ethanol (95%)	Alcohol	0	0	Good	
Hydraulic Fluid	Aliphatic Hydrocarbon	0	0	Good	
Hydrochloric Acid (18.5%)	Inorganic Acid	0	0	Fair	
Hydrogen Peroxide (30%)	Peroxide	0	0	Fair	Urethane had blistering after 2 hours.
Isopropyl Alcohol	Hydroxylic Compound	0	0	Good	
Mineral Oil	Petroleum Hydrocarbon	0	0	Good	
Chlorine Bleach (5% Sodium Hypochlorite)	Inorganic Halogen	1	0	Good	
Sodium Hydroxide (40%)	Inorganic Base	0	0	Good	
Sulfuric Acid (50%)	Inorganic Acid	1	0	Fair	Urethane began to breakdown after 2 hours.
Xylene	Aromatic Hydrocarbon	1	0	Fair	Urethane began to swell after 6 hours.
Gasoline	Petroleum Hydrocarbon	1	0	Good	
Antifreeze	Glycol Ether	0	0	Good	
Diesel Fuel	Petroleum Hydrocarbon	1	0	Good	

All tests exposed each chemical to a Drain Protector™, Conical Drain Plug and Barrel Patch for a minimum of 4 hours.

**KEY:**

Degradation – Any physical change in the material: Swelling, discoloration, curling, etc.

Degradation Rating – 0 = None; 1 = Slight; 2 = Significant

Seal – Any change to the seal between the Drain Protector™ and the sealing surface.

Seal Rating – 0 = None; 1 = Slight; 2 = Significant

Overall Compatibility – The material's ability to resist chemical degradation and maintain a seal.

Overall Compatibility Rating – Good = Can withstand 4 or more hours of chemical exposure

Fair = Can withstand 2 – 4 hours of chemical exposure

(ER) Emergency Response = Can withstand 30 min. to 2 hours of chemical exposure

(NR) Not Recommended = Not recommended for use with this chemical

**Note:** Drain Protector™, Conical Plug and Barrel Patches that have been chemically degraded may be considered hazardous waste because of their mixture with a hazardous liquid. Dispose of in accordance with Federal, State and Local requirements.

**For additional assistance, please call PSI Urethanes, Inc. at 800-888-5156**