

KBS RustSeal Chemical Resistance Guide*



Material	Spill, splash or incidental / occasional contact	Periodic contact (<1 hour per day)	Immersion, constant contact or condensation vapours
Acetic Acid 5%	✓	✓	✓
Acetic Acid 10%	✓	✓	✓
Acetone	✓	✓	✓
Ammonium Hydroxide 1%	✓	✓	✓
Ammonium Hydroxide 5%	✓	✓	✓
Benzene	✓	✓	✓
Bleach	✓	✓	✓
Brake Fluid	✓	✓	NR
Chromic Acid 20%	✓	✓	NR
Citric 10%	✓	✓	✓
Coal Dust	✓	✓	✓
Deionized Water	✓	✓	✓
Detergent Solution Weak	✓	✓	✓
Detergent Solution Strong	✓	✓	✓
Diesel	✓	✓	✓
Distilled Water	✓	✓	✓
Ethylene Glycol (Antifreeze)	✓	✓	✓
Ethanol	✓	✓	✓
Ferric Chloride 2%	✓	✓	✓
Ferric Sulfate 10%	✓	✓	✓
Grape Juice	✓	✓	✓
Heptane	✓	✓	✓
Hexane	✓	✓	✓
Hydraulic Fluid	✓	✓	✓
Hydrochloric Acid 10%	✓	✓	✓*
Hydrochloric Acid 20%	✓	✓	NR
Hydrogen Peroxide Solution 3%	✓	✓	✓
Hydrogen Sulfate (sewer gas)	✓	✓	✓
Kerosene	✓	✓	✓
Lactic Acid 5%	✓	✓	✓
Lactic Acid 10%	✓	✓	✓
Methanol	✓	✓	✓
Methylene Chloride	NR	NR	NR
Methyl-Ethyl Ketone	✓	✓	NR
Mineral Spirits	✓	✓	✓
Nitric Acid 5%	✓	✓	✓
Nitric Acid 10%	✓	✓	✓*
Nitric Acid 30%	✓	✓	NR
Oil (Automotive)	✓	✓	✓
Oil (Vegetable)	✓	✓	✓
Oleic Acid	✓	✓	✓
Petrol (Automotive)	✓	✓	✓
Petrol (Aviation)	✓	✓	✓
Jet Fuel	✓	✓	✓
Phenol Solution	✓	✓	✓
Phosphoric Acid 10%	✓	✓	✓
Phosphoric Acid 70%	✓	✓	NR
Potassium Hydroxide	✓	✓	NR
Salt Brine	✓	✓	✓
Skydrol	✓	✓	✓
Strong Soap Solution 4%	✓	✓	✓
Sodium Chloride	✓	✓	✓
Sodium Hydroxide 10%	✓	✓	✓*
Sodium Hydroxide 50%	✓	✓*	NR
Sodium Hypochlorite 2%	✓	✓	✓
Sulfuric Acid 10%	✓	✓	✓*
Sulfuric Acid 25%	✓	✓*	NR
Sulfuric Acid 50%	✓	✓*	NR
Sulfuric Acid 95%	✓	✓*	NR
Toluene	✓	✓	✓
Trichloroethane	✓	✓	✓
Water (Distilled)	✓	✓	✓
Xylene	✓	✓	✓

✓ = Suitable for general applications

✓* = Generally suitable but some applicational testing should be done prior to use

NR = Not Recommended

*Please note this Chemical Resistance Guide is a GUIDE ONLY to the general chemical resistance of RustSeal and cannot be used as a bible for all applications and conditions without prior testing.

We used KBS RustSeal Oxide Red in most of the tests but Silver and Black were also used at not less than 150um film thickness.

Average temperature when applied was 20 degrees Centigrade.

Common variables to be aware of include temperature; direction of the heat; any localised heating (hot spots); chemical concentration levels; different preprational techniques; chemical layering; different manufacturers specifications for the "same product"; differing substrates and varying film thickness of applied RustSeal.