



Resistance of RapidShield™ 0007-2 Topcoat Against Chemicals

Floors coated with RapidShield™ have good chemical resistance. RapidShield™ performs very well with most acids or neutral chemicals. Strong alkaline chemicals may cause some performance issues.

During simulation tests, the test samples were applied immediately after curing RapidShield™ 0007-2 Topcoat and covered with a 100 mm diameter watch glass to minimize evaporation of the test material. After 24 hours, half of the areas under the watch glass were wiped clean and observations recorded. After seven days, the remainder of the test material was wiped off and observations were recorded.

The tables below give an indication of chemical resistance.

Key to observations:

- P: Pass - no indication of adhesion loss, change in color, reduction in gloss or reduction in hardness
- D: Dull - Reduced gloss
- DS: Discolor - Stained
- F: Complete Failure
- S: Coating Softened
- NT: Not Tested

Chemical	After 24 Hours	After 7 Days
Solvents (Alcohols)		
Ethylene Glycol	P	P
Isopropyl Alcohol	P	P
Propylene Glycol	P	P
Methanol	P	P
Ethanol	P	P
Solvents (Aliphatic)		
Lactone Spirits	P	P
VM&P Naptha	P	P
Gasoline 87 Octane	P	P
Mineral Spirits	P	P
Solvents (Aromatic)		
Xylene	P	P
Solvents (Ketones and Esters)		
Acetone	P	P
Methyl Ethyl Ketone (MEK)	P	P
Methyl IsoButyl Ketone (MIBK)	P	P
Ethylene Glycol Monobutyl Ether (EB)	P	P

Chemical	After 24 Hours	After 7 Days
Industrial and Residential Chemicals		
10W40 Motor Oil	P	P
Sodium Thiosulfate, .1N	P	P
DOP	P	P
Dot 4 Break Fluid	P	P
Power Steering Fluid	P	P
Triethanol Amine	P	P
Zerex Antifreeze	P	P
Copper Sulfate	D	D
Ammonium Chloride, 10%	P	P
Sodium Sulfide	P	P
Gear Oil	P	P
Hydraulic Oil	P	P
Transmission Fluid	P	P
Hydrogen Peroxide	P	P
MEK-Peroxide	P	P
Aircraft Chemicals		
Skydrol 5	Pass	Pass
Skydrol 500-B4	Pass	Pass
Skydrol LD-4	Pass	Pass
Jet Fuel JP-5	Pass	Pass



Indications of Chemical Resistance Continued

Chemical	After 24 Hours	After 7 Days
Industrial and Residential Cleaners		
Murphy's Oil Soap	P	P
ZEP Glass Cleaner	P	P
Borax Solution	P	P
Krud Kleaner	P	P
Tide Soap, 5%	P	P
ZEP Formula 50	P	P
Chlorox Bleach	P	P
Red Giant 500 Cleaner	P	P
Oxiclean Solution	P	P
QUAKER FORMULA™ 409	P	P
TSP Cleaner Solution	P	P
CLR Cleaner	P	P
Iodine	DS	DS
KEMIKO® 2451	P	P
KCMA and Concrete Countertop Reagents		
Mustard	P	P
Ketchup	P	P
Tapatio Hot Sauce	P	P
100 Proof Alcohol	P	P
Coffee	P	P
Grape Juice	P	P
Orange Juice	P	P
Lemon Juice	P	P
Olive Oil	P	P
Vinegar	P	P
Red Wine	P	P
Vegetable Oil	P	P
Blood	P	P
Urine	P	P

Chemical	After 24 Hours	After 7 Days
Acids, Inorganic		
H ₃ PO ₄ Phosphoric Acid, 50%	P	P
H ₃ PO ₄ Phosphoric Acid, 10%	P	P
H ₂ SO ₄ Sulfuric Acid, 85%	F	F
H ₂ SO ₄ Sulfuric Acid, 50%	P	D
H ₂ SO ₄ Sulfuric Acid, 10%	P	P
HCL Hydrochloric Acid, 37%	P	D
Battery Acid	P	P
Acids, Organic		
Glacial Acetic	D/DS	D/DS
Vinegar (Acetic Acid)	P	P
Citric Acid, 10%	P	P
Acetic Acid, 10%	P	P
Alkalines		
NaOH Sodium Hydroxide, .1 N	S/DS	S/DS
NaOH Sodium Hydroxide, 50%	P	D
NaOH Sodium Hydroxide, 29%	P	P
KOH Potassium Hydroxide, 50%	D	F
KOH Potassium Hydroxide, 10%	D	F

Key to observations:

- P: Pass - no indication of adhesion loss, change in color, reduction in gloss or reduction in hardness
- D: Dull - Reduced gloss
- DS: Discolor - Stained
- F: Complete failure
- S: Coating softened
- NT: Not tested

For any questions or concerns, please contact your local RapidShield™ representative.

The information contained herein is based on data available to us and is believed to be accurate. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR TO BE IMPLIED, REGARDING THE ACCURACY OF THESE DATA. THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THE HAZARDS CONNECTED WITH THE USE OF THE PRODUCT. Quaker Chemical Corporation assumes no liability for any alleged ineffectiveness of the product or any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is solely attributable to negligence on the part of Quaker Chemical Corporation.



www.rapidshield.com

CHEMICAL RESISTANCE RAPIDSHIELD™