



Resistance of RapidShield™ 0007 Clear against chemicals

Generally, standard cured coatings can only be attacked by oxidation by strong acids. Also, solvents can soften the top layers of standard floor coatings, which can result in the inability to load floor coatings mechanically.

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

During simulation tests, the test samples were applied immediately after curing RapidShield™ 0007 Clear and covered with a 100 mm diameter watch glass to minimize evaporation of the test material. After 24 hours, ½ of the areas under the watch glass were wiped clean and observations recorded. After 7 days, the remainder of the test material was wiped off and observations were recorded.

Key to observations:

- P : Pass: no indication of adhesion loss, change in colour, reduction in gloss or reduction in hardness
- A : Loss of adhesion
- B : Blistering
- S : Coating softened
- Y : Yellowing
- NT : Not tested

The following tables give an indication of chemical resistance. For any questions or concerns, please contact your local RapidShield™ representative.

Chemical	After 24 hours	After 7 days
Acids, Inorganic		
Hydrochloric acid, 1 N	S	B, S
Sulphuric acid, 0.25 N	P	P
Acids, Organic		
Citric acid, 10%	P	P
Vinegar (acetic acid)	P	P
Alkalies		
Caustic soda, 0.5 N	S	B, S
Solvents (Alcohols)		
Butyl cellosolve	P	P
Ethanol	P	P
Ethylene glycol (antifreeze)	NT	NT
Isopropyl alcohol	P	P
Methanol	P	P
Solvents (Aliphatic)		
DPNB	P	P
Gasoline	Y	P
Jet Fuel - JP-5	P	P
Solvents (Aromatic)		
VM&P naptha	P	P
Solvents (Ketones & Esters)		
Methyl-Ethyl-Ketone (MEK)	P	P
Miscellaneous Solvents		
Acetone / Water, 1:1	P	P
Paint stripper	B, A	B, A
Sodium chloride, 10%	P	P

Chemical	After 24 hours	After 7 days
Industrial Chemicals		
10W40 Motor Oil	P	P
Brake Fluid Dot 3 & 4	P	P
Brass and Copper Polish	P	P
Chlorox Bleach	S, Y	S, B, Y
Cleardue 6510	P	P
Descolene 4066	P	P
Epmas Acid Stain 37N-1	P	Y
Ferrocoat 624 AAM	P	P
Gear Oil	P	P
Hocut 795 FD	P	P
Honilo 980B	P	P
Iodine	Y	P
Orange Glow Cleaner	P	P
Producto 735	P	P
Producto Sp-237N	P	P
PVC Pipe Cleaner	P	P
Quakeral 377	P	P
Quanta Lube 270 XL	P	P
Solclean 76 ITT	P	NT
Tech Cool 3720	P	P
Tide Soap, 5%	P	P
Triethanol Amine	P	P
Velva Sheen Dust Mop Cleaner	P	P
WD-40	P	P
Window Cleaner	P	P

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