

CHEMICAL RESISTANCE GUIDE

Accuflex Coatings
By Superior Coating Specialists
503 N. Ugstad Rd., Proctor, MN 55810
218-727-9180

This Chemical Resistance Guide has been developed to help assess the potential damage resulting from chemical spillage to the Accuflex coating.

The chemical resistance tests were conducted according to ASTM D543 and consisted of complete immersion of the cured coating in the selected chemical for seven days. Effects of volume swell, film hardness, discoloration or other signs of degradation were monitored and documented.

This ASTM test is severe since normal maintenance procedures usually result in immediate, or at least rapid clean up of the spill. Also, with solvents and gasoline, evaporation would normally occur mitigating the effects of complete immersion for seven days.

Chemical resistance was rated for each chemical using the following criterion:

Rating	Description of Effect
5	0 – 10% volume swell or hardness loss
4	10 – 20% volume swell or hardness loss
3	20 – 30% volume swell or hardness loss
2	30 – 40% volume swell or hardness loss
1	>40% volume swell or hardness loss
0	Cracking, sample dissolved

Chemical Resistance Test Results

Alkaline

Sodium hydroxide, 10%	5
Sodium hydroxide, 30%	5

Acids

Hydrochloric, 32%	4
Sulfuric, 30%	4
Sulfuric, concentrate	0

Petroleum Products

Antifreeze	5
Brake fluid	2
Motor Oil	5
Gasoline	1

Solvents

Ethanol	2
Acetone	0
Mineral Spirits	4

Household/Miscellaneous

Floor cleaner	4
Bleach	4
Ammonia	3
Vegetable oil	5
Salt water, saturated	5
Distilled water	5
Hydrogen peroxide, 3%	5
Urine	5

The information contained herein or supplied by us in any other manner is based on data obtained in our own research and is considered accurate. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases Superior Coating Specialists from all liability, in tort, contract, or otherwise incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind Superior Coating Specialists. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.