

StarSeal PS System

Chemical Resistance Chart

StarSeal PS floor using StarSeal PS Finish Coat Ultra

Tested by ASTM D 1308, "Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes" for 1 hour.

After 24 hours on existing and 28 days on fresh concrete, surfaces treated with StarSeal PS Finish Coat Ultra provide the following resistances

StarSeal PS floor using StarSeal PS Ultra Guard SPE

Tested by ASTM D 1308, "Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes" for 1 hour.

After 72 hours surfaces treated with StarSeal PS Ultra Guard SPE provide the following resistances:

<u>CHEMICAL</u>	<u>RESULTS CLEAR</u> (no FSR)	<u>RESULTS CLEAR</u> <u>FINISH COAT FSR</u>	<u>RESULTS CLEAR</u> <u>GUARD FSR</u>
Acetic acid 5% (vinegar, food acid)	Stain	No Effect	No Effect
Acetone 100%, 50-% (solvent)	No Effect	Loss of Gloss	No Effect
Amyl Alcohol (solvent)	No Effect	Slight Stain	No Effect
Aluminum Chloride	Stain	No Effect	No Effect
Ammonia 10%, 30% solution (fertilizer, cleaner)	No Effect	No Effect	No Effect
Ammonium Bicarbonate (leavening agent)	No Effect	No Effect	No Effect
Ammonium Chloride (fertilizer)	Stain	No Effect	No Effect
Ammonium Nitrate (fertilizer)	No Effect	No Effect	No Effect
Ammonium Phosphate (fertilizer)	No Effect	No Effect	No Effect
Ammonium Sulfate (fertilizer)	No Effect	No Effect	No Effect
Anti Freeze	No Effect	No Effect	No Effect
Aviation Gasoline's	Slight Stain	Slight Stain	No Effect
Battery Acid 30% Sulfuric Acid	Slight Stain	Minimal	Slight Stain
Beer (food acid)	Slight Stain	No Effect	No Effect
Brake Fluid	Slight Stain	No Effect	Loss of Gloss
Calcium Chloride (de-icing salt)	Slight Stain	Slight Stain	No Effect
Calcium Hydroxide (slaked lime)	Slight Stain	Slight Stain	No Effect
Carbon Tetrachloride (solvent)	No Effect	Loss of Gloss	Severe Softening
Carbonic Acid 85%	No Effect	No Effect	No Effect
Chromic Acid 10%	No Effect	No Effect	No Effect
Cooking Oil	Slight Stain	No Effect	No Effect
Cutting Oil (lubricant, coolant)	Slight Stain	No Effect	No Effect
Diesel Fuel #2 (fuel)	Slight Stain	No Effect	No Effect
Ethyl Alcohol (beer)	Slight Stain	No Effect	No Effect
Ethyl Alcohol (ethanol, grain alcohol,)	Slight Stain	No Effect	No Effect
Ethylene Glycol (anti-freeze)	Slight Stain	No Effect	No Effect
Gasohol (fuel)	Slight Stain	No Effect	No Effect
Gasoline	No Effect	No Effect	No Effect
Grease	Slight Stain	No Effect	No Effect
HCL (10%)	Slight Stain	No Effect	No Effect
Hexane (solvent)	No Effect	Loss of Gloss	No Effect
Household Bleach	No Effect	No Effect	No Effect
Hydrochloric Acid (Muriatic Acid, HCL) 15%-31% (strong industrial acid)	Stain	Slight Stain	15% No Effect 31% Slight stain
Hydrogen Peroxide 3%,10%,35% (oxidizer, bleaching)	No Effect	No Effect	No Effect

Iodine	Slight Stain	No Effect	Slight Stain
Isopropyl Alcohol 100%,50% (rubbing alcohol)	No Effect	No Effect	No Effect
Jet Fuel	Slight Stain	No Effect	No Effect
Ketchup	Stain	No Effect	No Effect
Kerosene (fuel)	Slight Stain	No Effect	No Effect
Lactic Acid (milk acid, food acid)	Slight Stain	No Effect	No Effect
Lemon Juice – Citric Acid	Slight Stain	No Effect	No Effect
Methyl Ethyl Ketone, MEK (solvent)	No Effect	Loss of Gloss	Removal
Methyl Alcohol 100%, 50% (Methanol, wood alcohol)	No Effect	Loss of Gloss	No Effect
Methylene Chloride (solvent)	No Effect	Loss of Gloss	Removal
Milk	Stain	No Effect	No Effect
Motor Oil	Slight Stain	No Effect	No Effect
Mustard	No Effect	No Effect	No Effect
NAOH (10%)	No Effect	No Effect	No Effect
Naphthenic Oil (a mineral oil)	Slight Stain	No Effect	No Effect
Nitric Acid (HNO ₃) (strong industrial acid)	Stain	Slight Stain	Discoloration
Orange Juice – Citric Acid	Slight Stain	No Effect	No Effect
Phosphoric Acid 85%	Slight Stain	No Effect	No Effect
Potassium Dichromate	Stain	No Effect	No Effect
Potassium Hydroxide, KOH (Caustic potash)	Stain	No Effect	No Effect
Red Wine	Stain	No Effect	No Effect
Salt Spray Resistance ASTM B117	Slight Stain	250 hr	500 hr.
Steam	No Effect	No Effect	Slight Softening
Sodium Chloride 25% NaCl (salt water)	No Effect	No Effect	No Effect
Sodium Hydroxide 25% NaOH (lye, drain opener)	No Effect	No Effect	No Effect
Sodium Sulfate	No Effect	No Effect	No Effect
Sugar (sucrose) 10% solution	Stain	No Effect	No Effect
Tannic Acid (food acid)	Stain	No Effect	No Effect
Tartaric Acid (food acid)	Stain	No Effect	No Effect
Toluene (solvent)	No Effect	Loss of Gloss	Removal
Transmission Fluid	Slight Stain	No Effect	No Effect
Tri Sodium Phosphate, TSP (cleaning agent, degreaser)	No Effect	No Effect	No Effect
Urea (found in fertilizer, urine)	Slight Stain	No Effect	No Effect
Urine (can be acidic or alkaline)	Stain	No Effect	No Effect
Water	No Effect	No Effect	No Effect
Vinegar Acetic Acid (10%)	Stain	No Effect	No Effect
Wine (food acid)	Stain	No Effect	No Effect
Xylenes (solvent)	No Effect	Loss of Gloss	Removal

The resistance is based upon proper application to saturation of StarSeal PS Clear, StarSeal PS Finish Coat Ultra and StarSeal PS Ultra Guard SPE treated concrete. Results can differ where applications are compromised.