# Dur-A-Flex Chemical Resistance Data

This data is based on the application of listed materials to the top surface of the flooring

| | | Epoxies | | | | Urethanes | | | | | Acrylics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Chemical Name** | % Conc. | Dur-A-Gard | Glaze #4 | Novolac | Ultra Clear | Armor Top | ACCELERA | Poly-Thane 2 HS | Poly-Crete HF, MD, TF Plus | Poly-Crete Color Fast | MMA |
| Acetic Acid | 10% | R | R | R | R | R | R | R | R | R | R |
| Acetic Acid | 30% | D | D | R | R | S | S | D | R | S | D |
| Acetic Acid | 50% | N | N | R | N | S | S | D | D | S | N |
| Acetic Acid,3%, and Propionic Acid | | R | R | R | R | R | R | R | R | R | R |
| AC-103 | 100% | R | R | R | D | R | D | R | R | D | R |
| Acetone | | N | N | N | N | R | R | R | R | R | N |
| ACP-99 Ketone | | N | N | D | N | | | R | | | N |
| Alum | 48% | N | N | R | N | | | D | D | | R |
| Aminoethanolamine | | S | S | S | S | | | S | R | | S |
| Ammonia | 30% | R | R | R | R | R | R | R | R | R | R |
| Ammonium Hydroxide | 30% | R | R | R | R | R | R | R | R | R | D |
| Antifreeze | | R | R | R | R | R | R | R | R | R | R |
| Aromatic 100 | | D | D | R | D | | | R | D | | |
| Aromatic hydrocarbons-Super Hiflash 100 | | D | D | R | D | | | R | D | | |
| Avance Grease Cutter | | D | R | R | R | R | R | R | DS | D | R |
| Avance Pot and Pan Detergent | | R | R | S | R | R | R | R | DS | R | R |
| Benzene | | N | N | D | N | | R | R | N | | N |
| Benzyl Alcohol | | D | D | N | D | R | N | R | D | D | N |
| Betadine | 10% | S | DS | DS | DS | S | R | S | S | S | S |
| Boric Acid | 4% | R | R | R | R | | | R | R | | R |
| Brake Fluid, DOT 3 | | D | D | D | D | R | S | R | D | N | R |
| Butanol/Methyl Cellosolve | | N | N | D | N | | | R | N | | N |
| Butyl Alcohol | | D | D | R | D | | | R | D | | N |
| Butyl Carbitol | | D | D | R | D | | | R | | | N |
| Butyl Cellosolve | | N | N | D | N | | | R | | | N |
| Butyl Cellosolve acetate | | N | N | D | N | | | R | | | N |
| Carbon Tetrachloride | | R | R | R | R | | | R | | | N |
| Caustic Soda solution | | R | R | R | R | R | R | R | R | R | R |
| Chlorine Bleach 2000 | | R | D | R | D | R | R | R | S | R | R |
| Chromic Acid | 10% | S | S | S | DS | S | S | S | S | S | S |
| Chromic Acid | 40% | N | N | S | N | S | S | DS | DS | | DS |
| ChloraPrep One-Step | 2% | S | R | S | S | S | R | R | S | S | R |
| CIP 100 Cleaner | 100% | D | R | R | R | R | R | R | R | R | R |
| CIP 200 Cleaner | 100% | DS | DS | DS | DS | D | DS | DS | DS | DS | DS |
| CIP 220 Cleaner | 100% | N | N | N | N | DS | R | R | S | S | R |
| CIP 300 Cleaner | 100% | R | R | R | R | R | R | R | R | R | R |
| Citric Acid | 10% | R | R | R | R | R | | R | R | R | R |
| Citric Acid | 20% | R | R | R | R | R | | R | R | R | R |
| Citric Acid | 50% | N | N | R | N | R | | R | R | R | R |
| Clorox | 10% | R | R | R | R | R | R | R | R | R | R |
| Coffee | | S | S | R | S | R | R | R | R | R | R |
| Cola | 90C | N | N | DS | N | S | S | S | S | S | S |
| Cola | RT | D | D | R | D | R | R | R | R | R | R |
| Copper Sulfate | | S | S | S | S | | | S | S | | S |
| Coulter Tru Color Wright Stain | | S | S | S | S | S | S | S | S | S | S |
| Cupric Chloride | | S | S | S | S | | | S | S | | S |
| Cyclohexanone | | D | D | R | D | | | R | D | | R |
| Detergent, heavy duty | | R | R | R | R | R | | R | R | R | R |
| Diacetone alcohol | | N | N | D | | | | R | | | N |
| Diesel | | R | R | R | R | R | R | R | R | R | R |
| Dimethyl ethanol amine | | S | S | S | S | | | S | | | |
| Dimethylamineborane | | S | S | S | S | | | S | | | |
| DMF | | N | N | N | N | R | R | R | N | S | S |
| Docosanic Acid (in ethanol) | 2.50% | N | N | R | N | | | R | N | | |
| Drano- (sodium hydroxide and aluminum) | | D | D | R | D | R | | R | R | R | |
| DuraPrep | 2% | N | DS | N | DS | DS | DS | DS | S | S | DS |
| Eco-lab AC-3 Cleaner | | N | N | R | N | DS | S | DS | DS | N | S |
| Eco-Lab Wash & Walk 14278 | | S | | S | | S | | | S | N | |
| Eco-Lab Neutral Disinfectant Cleaner (NDC) | 100% | R | DS | DS | DS | R | R | R | DS | DS | R |
| Eco-Lab Neutral Disinfectant Cleaner (NDC) | 0.5oz/Ga | R | DS | R | DS | R | R | R | DS | DS | R |
| EEP solvent | | N | N | D | N | R | | R | N | D | N |
| Enforce LP (6000 ppm) | | R | S | R | R | D | R | R | D | D | R |
| Envirocid | 100% | N | N | N | N | N | S | DS | S | N | N |
| Ethanol | 95% | N | N | D | N | R | R | R | D | | D |
| Ethyl Acetate | 99% | N | N | D | N | | | R | D | D | D |
| Excellerate Cleaner | | R | S | R | R | R | R | R | R | R | R |
| Fluoboric Acid | | D | D | R | D | | | R | | | |
| Formaldehyde | 37% | DS | DS | S | DS | S | S | S | S | S | S |
| Gasoline | | R | R | R | R | R | R | R | R | R | R |
| Glycol Ether | | N | N | D | N | | | R | | R | R |
| Heating Oil-Home | | R | R | R | R | R | R | R | R | R | R |
| Heptanoic Acid | 96% | | | D | | S | | | | N | |
| Hexane | | N | N | D | N | R | R | R | R | R | R |
| Hibiclens | 4% | R | R | S | S | R | S | R | R | S | R |
| Hydraulic fluids | | R | R | R | R | R | R | R | R | R | R |
| Hydrochloric Acid | 5% | S | S | R | S | R | R | R | R | R | R |
| Hydrochloric Acid | 20% | S | S | S | S | S | R | S | S | S | S |
| Hydrochloric Acid | 37% | N | N | S | N | S | S | DS | S | DS | S |

**Key:** **R** = Resists degradation and staining **S** = Stains but resists degradation **D** = Degrades and stains unless cleaned from surface within 24 hours
**DS** = Stains and must be cleaned from the surface within 24 hours to avoid coating degradation **N** = Not resistant - degraded the coating immediately

DUR-A-FLEX
INNOVATION FROM THE FLOOR UP

# Dur-A-Flex Chemical Resistance Data

This data is based on the application of listed materials to the top surface of the flooring

| | | Epoxies | | | | Urethanes | | | | | Acrylics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Chemical Name** | % Conc. | Dur-A-Gard | Glaze #4 | Novolac | Ultra Clear | Armor Top | ACCELERA | Poly-Thane 2 HS | Poly-Crete HF, MD, TF Plus | Poly-Crete Color Fast | MMA |
| Hydrofluoric Acid | 10% | N | N | S | N | N | | DS | DS | DS | DS |
| Hydrofluoric Acid | 40% | N | N | N | N | N | | N | N | N | N |
| Hydrofluosilic Acid | 30% | R | R | R | R | S | | R | R | R | R |
| Hydrogen Peroxide | 25% | D | D | R | D | S | S | R | R | R | R |
| Hydrogen Peroxide | 50% | N | N | R | D | S | S | R | R | N | R |
| Hydrogen Peroxide (VHP) | 560ppm | | | R | | S | R | R | | | R |
| Io-Star | | DS | S | S | S | S | S | S | S | S | S |
| Iodine Tincture | 2% | S | S | S | S | S | S | S | S | S | S |
| Isopropanol | | D | D | R | D | R | R | R | D | R | D |
| Isopropyl Acetate | 99% | D | D | R | D | | | R | D | | N |
| Jet Fuel | | R | R | R | R | R | R | R | R | R | R |
| Kennel Care (Provet Logic Floor Cleaner) | 100% | R | R | R | R | R | R | R | R | R | R |
| Lactic Acid | 10% | N | N | R | N | R | S | N | R | R | R |
| Lactic Acid | 30% | N | N | N | N | D | DS | N | R | D | R |
| Lactic Acid | 88% | N | N | N | N | N | N | N | R | D | R |
| Magnesium Hydroxide | | R | R | R | R | | | R | R | | R |
| MEK | | N | N | N | N | R | R | D | N | D | N |
| Methacrylate Monomer | | D | D | D | D | R | R | D | N | N | N |
| Methanol | | N | N | N | N | R | R | R | N | D | N |
| Methyl Cellosolve | | N | N | N | N | | | R | | D | N |
| Methyl dipropasol solvent | | N | N | R | N | | | R | | D | N |
| Methylene chloride | | N | N | N | N | | | N | N | D | N |
| MIBK | | N | N | D | N | R | R | R | N | N | N |
| Mineral Oil | | R | R | R | R | R | R | R | R | R | R |
| Mineral Spirits | | D | D | R | D | R | R | R | R | R | R |
| Monoethanolamine | | S | S | S | S | | | S | | | |
| Motor Oil | | R | R | R | R | R | R | R | R | R | R |
| Mustard, yellow | | S | S | S | N | S | R | S | S | S | R |
| Nickel chloride | | S | S | S | S | S | S | S | S | S | S |
| Nickel Sulfate | | S | S | S | S | S | S | S | S | S | S |
| Nitric Acid | 10% | DS | DS | R | DS | S | S | DS | S | S | S |
| Nitric Acid | 20% | DS | DS | R | DS | DS | N | S | S | S | S |
| Nitric Acid | 30% | N | N | R | N | N | N | S | S | S | DS |
| Nitric Acid | 40% | N | N | R | N | N | N | N | DS | S | N |
| Nitric Acid | 70% | N | N | D | N | N | N | N | N | N | N |
| Nitric Acid | 98% | N | N | N | N | N | N | N | N | N | N |
| Oleic Acid | | R | R | R | R | R | R | R | R | R | R |
| Oxalic Acid | 10% | R | R | R | R | R | R | R | R | R | R |
| Peppermint Oil | 100% | R | R | R | R | S | R | R | R | R | |
| Peracetic Acid, 39% in Acetic acid | 3% | S | D | S | S | D | R | D | S | S | R |
| Peroxigard | | N | DS | DS | N | DS | S | DS | S | S | S |
| Phenolic Paint stripper waste | 1-5% | D | D | R | D | | | R | | | N |
| Phosphoric Acid | 7% | N | N | R | N | R | R | S | R | R | R |
| Phosphoric Acid | 25% | N | N | D | N | R | R | S | R | R | R |
| Phosphoric Acid | 85% | N | N | N | N | N | N | N | N | N | DS |
| Phosphorous Trichloride | 100% | N | N | D | N | | | R | | | N |
| PM Solvent | | N | N | D | N | R | R | R | S | D | N |
| Polyester Resin | | D | D | R | D | | | R | | | D |
| Polyester resin in styrene | | D | D | R | D | | | R | | | N |
| Polyphosphates | | R | R | R | R | | | R | R | | R |
| Potassium Cyanide | | S | S | S | S | | | S | | | S |
| Potassium Hydroxide | 45% | R | R | R | R | R | R | R | R | R | R |
| Potassium Permanganate | solid | S | S | S | S | | | S | S | | S |
| Propionic Acid | 100% | D | D | R | D | | | R | | | N |
| Propyl Acetate | 100% | R | | R | | R | R | R | R | R | N |
| Propyl Cellosolve | | N | N | D | N | | | R | N | | |
| Propylene Glycol | | R | R | R | R | R | R | R | R | R | R |
| Propylene glycol ether | | N | N | R | N | R | R | R | D | D | R |
| Red Wine Vinegar | | R | S | S | DS | R | R | R | R | D | R |
| Remedy | | R | S | D | R | R | R | R | S | R | R |
| Sani Clean | | DS | S | S | DS | S | S | S | S | S | R |
| Silver Cyanide | | S | S | S | S | | | S | | | |
| Silver Nitrate | 5% | S | S | S | S | S | R | R | S | S | S |
| Silver Nitrate | 20% | S | S | S | S | S | S | S | S | S | S |
| Skydrol | | D | D | R | D | R | DS | R | | R | R |
| Sodium Chloride | | R | R | R | R | R | R | R | R | R | R |
| Sodium Hydroxide | 50% | R | R | R | R | R | R | R | R | R | R |
| Sodium Hypochlorite, 10-15% | 5% | R | R | R | R | D | R | R | R | R | R |
| Sodium Hypochlorite, 10-15% | 15% | D | D | R | D | D | R | R | S | S | R |
| Sodium Hypochlorite, 10-15% | 50% | D | D | D | D | D | R | R | S | S | R |
| Sodium Hypochlorite, 10-15% | 100% | DS | DS | D | D | D | D | R | S | S | R |
| Sodium Persulfate | | S | S | S | S | | | S | S | | S |
| Spartan, Inspector's Choice, 6ozs/gal | 5% | R | S | R | S | R | R | R | R | R | R |
| Spartan, Sparclean Sure Step, 2ozs/gal | 1.50% | R | R | R | R | R | R | R | S | N | R |
| Spearmint Oil | | DS | D | R | D | S | S | R | S | N | N |
| Spor-Klenz | 0.30% | S | S | R | S | S | R | R | R | R | R |
| Star San | | DS | S | S | DS | S | S | S | S | S | R |
| Stride | | R | S | R | S | R | R | R | S | S | R |
| Stoddard solvent | | N | N | D | N | | | R | N | | N |

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| **Chemical Name** | % Conc. | Dur-A-Gard | Glaze #4 | Novolac | Ultra Clear | Armor Top | ACCELERA | Poly-Thane 2 HS | Poly-Crete HF, MD, TF Plus | Poly-Crete Color Fast | MMA |
| Styrene | | N | N | D | N | | | R | N | | N |
| Sulfonic Acid | 70% | N | N | DS | N | DS | | | | N | |
| Sulfuric Acid | 10% | S | S | S | S | S | S | DS | S | S | S |
| Sulfuric Acid | 30% | N | N | S | N | DS | S | DS | S | N | S |
| Sulfuric Acid | 50% | N | N | S | N | N | DS | DS | S | N | DS |
| Sulfuric Acid | 98% | N | N | DS | N | N | N | N | N | N | N |
| Tannic Acid | 20% | S | S | S | S | | | S | S | | |
| Tartaric Acid | 10% | R | R | R | R | R | R | R | R | R | R |
| Terpene Fraction of Spearmint Oil | 100% | R | R | R | R | R | R | R | R | R | R |
| Toluol | 100% | N | N | N | N | | | R | | D | |
| Top Guard | | R | D | R | S | R | D | R | S | S | R |
| Transmission Oil | 100% | R | R | R | D | R | R | R | R | R | R |
| Trichloroethane (1,1,1) | 100% | D | D | R | D | | | R | | | |
| Trichloroethylene | 100% | N | N | N | N | R | | R | N | D | |
| Triethanolamine (TEA) | 100% | DS | DS | S | DS | | | DS | R | | |
| Triethanolpentamine (TEPA) | 100% | DS | DS | S | DS | | | DS | | | |
| Triethanoltetramine (TETA) | 100% | DS | DS | S | DS | | | DS | | | |
| Turbo Charge II NP | | R | R | R | R | R | R | R | R | R | R |
| Urine | | R | R | R | R | R | R | R | R | R | R |
| Vesphene II ST | 2 oz./2 gal. water | R | DS | | DS | R | R | R | DS | DS | DS |
| White Vinegar | | R | R | R | R | R | R | R | R | R | R |
| Virex | | R | R | R | S | R | R | R | R | S | R |
| Vortexx (2600 ppm) | | S | S | N | S | D | R | R | D | D | R |
| Water | | R | R | R | R | R | R | R | R | R | R |
| Wine, Red | | R | S | R | DS | S | R | R | R | S | R |
| Xylene | | D | D | R | D | R | R | R | D | D | N |

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All data is based on room temperature exposure. Please check with the Dur-A-Flex Technical Department for elevated constant temperature or thermal shock exposure. Coatings were tested using ASTM D1308 spot test covered method up to 7 days. Test results are valid only for the tested conditions and cannot accurately predict performance in actual use settings. Combinations of above substances were not tested with other substances and the effects of a combination of substances cannot be determined from these results. THE DATA ARE PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. THE ENTIRE RISK OF USE OF THE DATA SHALL BE WITH THE USER.
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