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	Glaze #5	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	R
Acetic Acid	30%	D	D	R	R	S	S	D	D	R	S	D
Acetic Acid	50%	N	N	R	N	S	S	D	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	D	R	R	D	R
Acetone		N	N	N	N	R	R	D	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	R
Ammonium Hydroxide	30%	R	R	R	R	R	R	R	R	R	R	D
Antifreeze		R	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	R	DS	D	R
Avance Pot and Pan Detergent		R	R	S	R	R	R	R	R	DS	R	R
Benzene		N	N	D	N		R		R	N		N
Benzyl Alcohol	Photo	D	D	R	D	R	N	D	R	D	D	N
Betadine	10%	S	DS	DS	DS	S	R	S	S	S	S	S
Boric Acid	4%	R	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	N	R	R	R	R
Chlorine Bleach 2000		R	D	R	D	R	R	R	R	S	R	R
Chromic Acid	10%	S	S	S	DS	S	S	DS	S	S	S	S
Chromic Acid	40%	N	N	S	N	R	R	DS	DS	DS		DS
ChloraPrep One-Step	2%	S	R	S	S	S	R	R	R	S	S	R
CIP 100 Cleaner	100%	D	R	R	R	R	R	D	R	R	R	R
CIP 200 Cleaner	100%	DS	DS	DS	DS	D	DS	DS	DS	DS	DS	DS
CIP 220 Cleaner	100%	N	N	N	N	DS	R	DS	R	S	S	R
CIP 300 Cleaner	100%	R	R	R	R	R	R	R	R	R	R	R
Citric Acid	10%	R	R	R	R	R		R	R	R	R	R
Citric Acid	20%	R	R	R	R	R		R	R	R	R	R
Citric Acid	50%	N	N	R	N	R		D	R	R	R	R
Clorox	10%	R	R	R	R	R	R	D	R	R	R	R
Coffee		S	S	R	S	R	R	S	R	R	R	R
Cola	90C	N	N	DS	N	S	S	S	S	S	S	S
Cola	RT	D	D	R	D	R	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	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	R
Dimethyl ethanol amine		S	S	S	S				S			
Dimethylamineborane		S	S	S	S				S			
DMF		N	N	N	N	R	R	S	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	DS	S	S	DS
Eco-lab AC-3 Cleaner		N	N	R	N	DS	S	N	DS	DS	N	S
Eco-Lab Wash & Walk 14278		S		S		S				S	D	
Eco-Lab Neutral Disinfectant Cleaner (NDC)	100%	R	DS	DS	DS	R	R	R	R	DS	DS	R
Eco-Lab Neutral Disinfectant Cleaner (NDC)	0.5oz/Ga	R	DS	R	DS	R	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	R	D	D	R
Envirocid	100%	N	N	N	N	N	S	N	DS	S	N	N
Ethanol	95%	N	N	D	N	R	R	D	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	R
Fluoboric Acid		D	D	R	D				R			
Formaldehyde	37%	DS	DS	S	DS	S	S	S	S	S	S	S
Gasoline		R	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	R
Heptanoic Acid	96%			D		S		N			N	
Hexane		N	N	D	N	R	R	R	R	R	R	R
Hibiclens	4%	R	R	S	S	R	S	D	R	R	S	R
Hydraulic fluids		R	R	R	R	R	R	R	R	R	R	R
Hydrochloric Acid	5%	S	S	R	S	R	R	DS	R	R	R	R
Hydrochloric Acid	20%	S	S	S	S	S	R	N	S	S	S	S
Hydrochloric Acid	37%	N	N	S	N	S	S	N	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 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	Glaze #5	Poly-Thane 2 HS	Poly-Crete HF, MD, TF Plus	Poly-Crete Color Fast	MMA
Hydrofluoric Acid	10%	N	N	S	N	N		N	DS	DS	DS	DS
Hydrofluoric Acid	40%	N	N	N	N	N		N	N	N	N	N
Hydrofluosilic Acid	30%	R	R	R	R	S		S	R	R	R	R
Hydrogen Peroxide	25%	D	D	R	D	S	S	D	R	R	R	R
Hydrogen Peroxide	50%	N	N	R	D	S	S	N	R	R	N	R
Hydrogen Peroxide (VHP)	560ppm			R		S	R	S	R			R
Io-Star		DS	S	S	S	S	S	S	S	S	S	S
Iodine Tincture	2%	S	S	S	S	S	S	S	S	S	S	S
Isopropanol		D	D	R	D	R	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	R
Kennel Care (Provet Logic Floor Cleaner)	100%	R	R	R	R	R	R	R	R	R	R	R
Lactic Acid	10%	N	N	R	N	R	S	D	N	R	R	R
Lactic Acid	30%	N	N	R	N	D	DS	N	N	R	D	R
Lactic Acid	88%	N	N	R	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	D	N	D	N
Methacrylate Monomer		D	D	D	D	R	R	N	D	N	N	N
Methanol		N	N	N	N	R	R	D	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	DS	R	N	N	N
Mineral Oil		R	R	R	R	R	R	R	R	R	R	R
Mineral Spirits		D	D	R	D	R	R	R	R	R	R	R
Monoethanolamine		S	S	S	S				S			
Motor Oil		R	R	R	R	R	R	R	R	R	R	R
Mustard, yellow		S	S	S	N	S	R	R	S	S	S	R
Nickel chloride		S	S	S	S	S	S	S	S	S	S	S
Nickel Sulfate		S	S	S	S	S	S	S	S	S	S	S
Nitric Acid	10%	DS	DS	R	DS	S	S	N	DS	S	S	S
Nitric Acid	20%	DS	DS	R	DS	DS	N	N	S	S	S	S
Nitric Acid	30%	N	N	R	N	N	N	N	S	S	S	DS
Nitric Acid	40%	N	N	R	N	N	N	N	N	DS	S	N
Nitric Acid	70%	N	N	D	N	N	N	N	N	N	N	N
Nitric Acid	98%	N	N	N	N	N	N	N	N	N	N	N
Oleic Acid		R	R	R	R	R	R	R	R	R	R	R
Oxalic Acid	10%	R	R	R	R	R	R	R	R	R	R	R
Peppermint Oil	100%	R	R	R	R	S	R	R	R	R	R	
Peracetic Acid, 39% in Acetic acid	3%	S	D	S	S	D	R	D	D	S	S	R
Phenolic Paint stripper waste	1-5%	D	D	R	D			R	R			N
Phosphoric Acid	7%	N	N	R	N	R	R	D	S	R	R	R
Phosphoric Acid	25%	N	N	R	N	R	R	N	S	R	R	R
Phosphoric Acid	85%	N	N	R	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	D	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	DS	R	R	R	R
Potassium Permanganate	solid	S	S	S	S			DS	S	S		S
Propionic Acid	100%	D	D	R	D				R			N
Propyl Acetate	100%	R		R		R	R	R	R	R	R	N
Propyl Cellosolve		N	N	D	N			N	R	N		
Propylene Glycol		R	R	R	R	R	R	R	R	R	R	R
Propylene glycol ether		N	N	R	N	R	R	D	R	D	D	R
Red Wine Vinegar		R	S	S	DS	R	R	R	R	R	D	R
Remedy		R	S	D	R	R	R	S	R	S	R	R
Sani Clean		DS	S	S	DS	S	S	S	S	S	S	R
Silver Cyanide		S	S	S	S				S			
Silver Nitrate	5%	S	S	S	S	S	R	S	R	S	S	S
Silver Nitrate	20%	S	S	S	S	S	S	S	S	S	S	S
Skydrol		D	D	R	D	R	DS	D	R		R	R
Sodium Chloride		R	R	R	R	R	R	R	R	R	R	R
Sodium Hydroxide	50%	R	R	R	R	R	R	N	R	R	R	R
Sodium Hypochlorite, 10-15%	5%	R	R	R	R	D	R	R	R	R	R	R
Sodium Hypochlorite, 10-15%	15%	D	D	R	D	D	R	D	R	S	S	R
Sodium Hypochlorite, 10-15%	50%	D	D	D	D	D	R	D	R	S	S	R
Sodium Hypochlorite, 10-15%	100%	DS	DS	D	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	R
Spartan, Sparclean Sure Step, 2ozs/gal	1.50%	R	R	R	R	R	R	R	R	S	R	R
Spearmint Oil		DS	D	R	D	S	S	N	R	S	N	N
Spor-Klenz	0.30%	S	S	R	S	S	R	S	R	R	R	R
Star San		DS	S	S	DS	S	S	S	S	S	S	R
Stride		R	S	R	S	R	R	R	R	S	S	R
Stoddard solvent		N	N	D	N				R	N		N

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Styrene		N	N	D	N				R	N		N
Sulfonic Acid	70%	N	N	DS	N	DS		N			N	
Sulfuric Acid	10%	S	S	S	S	S	S	S	DS	S	S	S
Sulfuric Acid	30%	N	N	S	N	DS	S	N	DS	S	N	S
Sulfuric Acid	50%	N	N	S	N	N	DS	N	DS	S	N	DS
Sulfuric Acid	98%	N	N	DS	N	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	R
Terpene Fraction of Spearmint Oil	100%	R	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	D	R	S	S	R
Transmission Oil	100%	R	R	R	D	R	R	R	R	R	R	R
Trichloroethane (1,1,1)	100%	D	D	R	D				R			
Trichloroethylene	100%	N	N	N	N	R		N	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	R
Urine		R	R	R	R	R	R	R	R	R	R	R
Vesphene II ST	2 oz./2 gal. water	R	DS		DS	R	R	R	R	DS	DS	DS
White Vinegar		R	R	R	R	R	R	R	R	R	R	R
Virex		R	R	R	S	R	R	R	R	R	S	R
Vortexx (2600 ppm)		S	S	N	S	D	R	R	R	D	D	R
Water		R	R	R	R	R	R	R	R	R	R	R
Wine, Red		R	S	R	DS	S	R	R	R	R	S	R
Xylene		D	D	R	D	R	R	D	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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