

Dur-A-Flex Chemical Resistance Data

R = Recommended (no change)

S = Splash & spill (slight change)

N = Not recommended (attack)

 Bold = Stains

Chemical Name	% Conc.	Epoxies					Urethanes							Acrylics
		Dur-A-Gard	Glaze #4	Nov - olac	Ultra Clear	Armor Top	Glaze #5	Poly-Thane 1	Poly-Thane 2 HS	Poly-Crete HF MD TF	Poly-Crete CF	Poly-Crete KT	MMA	
Acetic Acid	10%	R	R	R	R	R		R	R	R	R	R	R	R
Acetic Acid	30%	S	S	S	R	R		S	R	S	R		R	S
Acetic Acid	50%	N	N	N	R	N		S	R	S	S		S	N
Acetic Acid,3%, and Propionic Acid		R	R	R	R				R	R	R		R	R
Acetone		N	N	N	N		R	S	R	R		R		N
Acid Clean		S	S	S	R				S	S				
ACP-99 Ketone		N	N	N	S				R	R				N
Alum	48%	N	N	N	R				S	S	S		S	R
Aminoethanolamine		*R*	*R*	*R*	*R*				*R*	*R*	R		R	*R*
Ammonia	30%	R	R	R	R	R	R		R	R	R	R	R	R
Ammonium Hydroxide	30%	R	R	R	R		R	R	R	R	R	R	R	S
Antifreeze		R	R	R	R	R	R	R	R	R	R	R	R	R
Aromatic 100		S	S	S	R				R	R	S		S	
Aromatic hydrocarbons-Super Hiflash 100		S	S	S	R				R	R	S		S	
Benzene		N	N	N	S				R	R	N		N	N
Benzyl Alcohol	Photo	S	S	S	R				R	R	S	S	S	N
Betadine			*S*			*S*	*R*	*S*	*R*	*R*				*R*
Boric Acid	4%	R	R	R	R				R	R	R		R	R
Brake Fluid, DOT 3		S	S	S	S	S	R		R	R	S		S	R
Butanol/Methyl Cellosolve		N	N	N	S				R	R	N		N	N
Butyl Alcohol		S	S	S	R				R	R	S		S	N
Butyl Carbitol		S	S	S	R				R	R				N
Butyl Cellosolve		N	N	N	S				R	R				N
Butyl Cellosolve acetate		N	N	N	S				R	R				N
Carbon Tetrachloride		R	R	R	R				R	R				N
Caustic Soda solution		R	R	R	R				R	R	R	R	R	R
Chromic Acid	10%	*R*	*R*	*R*	*R*	*S*	*R*	*S*	*R*	*R*	*R*	*R*	*R*	*R*
Chromic Acid	40%	*N*	*N*	*N*	*R*			*S*	*S*	*S*	*S*		*S*	*S*
CIP 200 Cleaner		*N*							R					
Citric Acid	10%	R	R	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	N	R			S	R	R	R		R	R
Clorox		R	R	R	R		R	S	R	R	R	R	R	R
Coffee						*S*	*R*							
Cola	90C	*N*	*N*	*N*	*N*			*R*	*R*	*R*				*R*
Cola	RT	S	S	S	R	S	R	R	R	R	R		R	R
Copper Sulfate		*R*	*R*	*R*	*R*				*R*	*R*	*R*		*R*	*R*
Cupric Chloride		*R*	*R*	*R*	*R*				*R*	*R*	*R*		*R*	*R*
Cyclohexanone		S	S	S	R				R	R	S		S	R
Detergent, heavy duty		R	R	R	R	R	R		R	R	R	R	R	R
Diacetone alcohol		N	N	N	S				R	R				N
Dimethyl ethanol amine		*R*	*R*	*R*	*R*				*R*	*R*				
Dimethylamineborane		*R*	*R*	*R*	*R*				*R*	*R*				
DMF		N	N	N	N				R	R	N		N	
Docosanic Acid (in ethanol)	2.50%	N	N	N	R				R	R	N		N	
Drano- (sodium hydroxide and aluminum)		S	S	S	R	S	R		R	R	R	R	R	
DuraPrep			*S*			*S*	*S*	*S*	*R*	*S*				*S*
Eco-lab AC-3 Cleaner		*N*				N	*S*			*S*		N		
Eco-Lab Wash & Walk		R			R		R				R	R	R	
EEP solvent		N	N	N	S	N	R		R	R	N	S	N	N
Ethanol	95%	N	N	N	S		R	S	R	R	S		S	S
Ethyl Acetate	99%	N	N	N	S				R	R	S	S	S	S
Excellerate Cleaner						R	R					R		
Fluoboric Acid		S	S	S	R				R	R				
Formaldehyde	37%	*S*	*S*	*S*	*R*		*R*	*R*	*R*	*R*	*R*	*R*	*R*	*R*
Gasoline		R	R	R	R		R	R	R	R		R		R
Glycol Ether		N	N	N	S				R	R		R		R
Heating Oil-Home		R	R	R	R			R	R	R	R		R	R
Hexane		N	N	N	S				R	R	R		R	R
Hydraulic fluids		R	R	R	R			R	R	R	R	R	R	R
Hydrochloric Acid	20%	*R*	*R*	*R*	*R*			*R*	*R*	*R*	*R*	*R*	*R*	*R*
Hydrochloric Acid	37%	*R*	*R*	*R*	*R*		*R*	*S*	*R*	*R*	*R*		*R*	*R*
Hydrofluoric Acid	40%	*N*	*N*	*N*	*S*				*R*	*S*		*R*		*R*
Hydrofluosilic Acid	30%	R	R	R	R				R	R				R
Hydrogen Peroxide	30%	S	S	S	R		R	S	R	R	R	R	R	R
Hydrogen Peroxide	50%	N	N	N	R	S	S	N	R	R	R	R	R	R
Iodine Tincture	2%	*R*	*R*	*R*	*R*		*R*		*R*	*R*	*R*		*R*	*R*
Isopropanol		S	S	S	R		R	R	R	R	S		S	S
Isopropyl Acetate	99%	S	S	S	R				R	R	S		S	N
Jet Fuel		R	R	R	R		R	R	R	R	R		R	R
Lactic Acid	88%	N	N	N	R	N	N	S	S	N	R	S	R	R
Magnesium Hydroxide		R	R	R	R				R	R	R		R	R
MEK		N	N	N	N			S	S	S	N	S	N	N
Methacrylate Monomer		S	S	S	S			N	S	S	N	N	N	N

Dur-A-Flex Chemical Resistance Data

R = Recommended (no change)

S = Splash & spill (slight change)

N = Not recommended (attack)

Bold = Stains

Chemical Name	% Conc.	Epoxies					Urethanes							Acrylics
		Dur-A-Gard	Glaze #4	KF	Nov - olac	Ultra Clear	Armor Top	Glaze #5	Poly-Thane 1	Poly-Thane 2 HS	Poly-Crete HF MD TF	Poly-Crete CF	Poly-Crete KT	MMA
Methanol		N	N	N	N			R	R	N	S	N	N	
Methyl Cellosolve		N	N	N	N			R	R		S		N	
Methyl dipropasol solvent		N	N	N	R			R	R		S		N	
Methylene chloride		N	N	N	N			S	N	N	S	N	N	
MIBK		N	N	N	S		R	R	R	N		N	N	
Mineral Oil		R	R	R	R		R	R	R	R		R	R	
Mineral Spirits		S	S	S	R		R	R	R		R		R	
Mixed Chlorinated Waste Solvents		N	N	N	S			R	R				N	
Monoethanolamine		*R*	*R*	*R*	*R*			*R*	*R*					
Motor Oil		R	R	R	R		R	R	R	R		R	R	
Mustard, yellow							*R*							
Nickel chloride		*R*	*R*	*R*	*R*			*R*	*R*				*R*	
Nickel Sulfate		*R*	*R*	*R*	*R*			*R*	*R*				*R*	
Nitric Acid	10%	*S*	*S*	*S*	*R*		*R*	*S*	*R*	*S*			*R*	
Nitric Acid	20%	*S*	*S*	*S*	*R*		*S*	*N*	*R*	*R*	*R*	*R*	*R*	
Nitric Acid	30%	*N*	*N*	*N*	*R*			*N*	*R*	*R*	*R*	*R*	*S*	
Nitric Acid	40%	*N*	*N*	*N*	*R*			*N*	*S*	*S*	*R*	*S*	*N*	
Oleic Acid		R	R	R	R			R	R				R	
Oxalic Acid	10%	R	R	R	R			R	R				R	
Peppermint Oil	100%	R	R	R	R			R	R	R				
Phenolic Paint stripper waste	1-5%	S	S	S	R			R	R				N	
Phosphoric Acid	85%	*R*	*R*	*R*	*R*		*S*	*R*	*R*	*R*	*R*	*R*	*S*	
Phosphorous Trichloride	100%	N	N	N	S			R	R				N	
PM Solvent		N	N	N	S		R	S	R	R		S	N	
Polyester Resin		S	S	S	R			R	R				S	
Polyester resin in styrene		S	S	S	R			R	R				N	
Polyphosphates		R	R	R	R			R	R	R		R	R	
Potassium Cyanide		*R*	*R*	*R*	*R*			*R*	*R*				*R*	
Potassium Hydroxide	45%	R	R	R	R	R		*S*	R	R	R	R	R	
Potassium Permanganate	solid	*R*	*R*	*R*	*R*			*S*	*R*	*R*	*R*	*R*	*R*	
Propionic Acid	100%	S	S	S	R			R	R					
Propyl Cellosolve		N	N	N	S			N	R	R	N	N		
Propylene Glycol		R	R	R	R		R	R	R	R	R	R	R	
Propylene glycol ether		N	N	N	R		R		R	R	S	S	R	
Red Wine Vinegar						*S*	R					S		
Silver Cyanide		*R*	*R*	*R*	*R*				*R*	*R*				
Silver Nitrate	20%	*R*	*R*	*R*	*R*				*R*	*R*	*R*	*R*		
Skydrol		S	S	S	R	S	R	S	R	R		R	R	
Sodium Chlorite		R	R	R	R				R	R	R	R	R	
Sodium Hydroxide	50%	R	R	R	R		R	R	R	R	R	R	R	
Sodium Hypochlorite	15%	R	R	R	R				R	R	R	R	R	
Sodium Hypochlorite	50%	N	N	N	R		R		R	R		R	R	
Sodium Persulfate		*R*	*R*	*R*	*R*				*R*	*R*	*R*	*R*	*R*	
Spearment Oil		*S*	S	S	R				R	R				
Spor-Klenz					*N*			*N*					*N*	
Stoddard solvent		N	N	N	S				R	R	N	N	N	
Styrene		N	N	N	S				R	R	N	N	N	
Sulfuric Acid	10%	*R*	*R*	*R*	*R*	*R*	*S*	*R*	*R*	*S*	*R*	*R*	*R*	
Sulfuric Acid	50%	*N*	*N*	*N*	*R*	N		*S*	*S*	*S*	*R*	*R*	*S*	
Sulfuric Acid	75-98%	*N*	*N*	*N*	*R*			*N*	*N*	*N*	*N*	*N*	*N*	
Tannic Acid	20%	*R*	*R*	*R*	*R*				*R*	*R*	*R*	*R*		
Tartaric Acid	10%	R	R	R	R				R	R			R	
Terpene Fraction of Spearmint Oil	100%	R	R	R	R				R	R				
Tetrahydrofuran														
Toluol		N	N	N	N				R	R		S		
Transmission Oil		R	R	R	R	S	R		R	R	R	R	R	
Trichloroethane (1,1,1)		S	S	S	R				R	R				
Trichloroethylene		N	N	N	N				R	R	N	S	N	
Triethanolamine (TEA)		*S*	*S*	*S*	*R*				R	*S*	R			
Triethanolpentamine (TEPA)		*S*	*S*	*S*	*R*				R	*S*				
Triethanolitetramine (TETA)		*S*	*S*	*S*	*R*				R	*S*				
Urine		R	R	R	R			R	R	R	R	R	R	
Vinegar		R	R	R	R			R	R	R	R	R	R	
Water		R	R	R	R			R	R	R	R	R	R	
Wine, cabernet sauvignon						*S*	*R*							
Xylene		S	S	S	R		R	S	R	R	S	S	N	

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

Methodology - Epoxies and Acrylics (MMA) were tested by immersion for Shore D Hardness and weight change at 0, 2, and 7 days

- Urethanes were spot tested and checked after 1, 2, and 7 days

83010