



# CHEMICAL RESISTANCE CHART

ArmorUltra Military Grade 2-Part Urethane Topcoats  
ARM321X/ARM322X

Rating	Meaning
A	Not recommended for exposure to this chemical
B	Short term exposure splash spill (recommended for exposure times not to exceed 2 hours)
C	Long term exposure splash spill (recommended for exposure not to exceed a normal 8-10 hour work shift without cleanup)
D	Short term immersion (recommended for exposure not to exceed 72 hours)
E	Long term immersion (recommended for continuous exposure to chemical. Life expectancy is variable. Long term exposures such as a tank linings and trenches fall under this rating.)
T	This rating is used to depict chemicals that do not have any service data; but based on technical knowledge are suitable for exposure to this chemical

\*Denotes 12 hour heat cure at 150°F

## NOTICE

**ALL RATINGS ARE THE SAME FOR BOTH RESITANCES OF ARM253X AND ARM257X EXCEPT (SODIUM BISULFITE, CYCLOHEXANONE, CHROMIC ACID 10%)**

Many chemicals for corrosive environments are represented in the following chemical charts. Much of the information is from actual lab testing or field experience established during our many years of business. In some instances where neither field service nor laboratory testing has contributed to the classification, our chemists have rated the chemicals according to expected characteristics. However, many applications are complicated by mixtures of chemicals, temperature fluctuations and other intricate conditions existing at the specific job site. For these reasons, it is advisable to place a test patch prior to the installation of any product to investigate the suitability of your selection with your specific needs. When other questions arise concerning any chemical matters, feel free to contact your sales agent for further information. Details for laminate systems, special chemical resistant fillers and application guidelines are also available from your sales agent upon request.

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Chemical Resistance	ARM321	BARIUM HYDROXIDE	TC	CORN OIL	C	GASOLINE AVIATION	D
ACETALDEHYDE	C	BARIUM SULFATE	C	CORN STARCH SLURRY	E	GASOLINE DIESEL	D
		BARIUM SULFIDE	B	CORN SUGAR	D	GASOLINE JET FUEL	D
ACETIC ACID 5%	C	BENZYL CHLORIDE	TB	COTTONSEED OIL	C	GASOLINE UNLEADED	D
ACETIC ACID 10%	B	BENZOIC ACID	B	CREOSOTE	C	GLUCOSE	D
ACETIC ACID 25%	A	BENZALDEHYDE	TB	CRESYLIC ACID	TB	GLYCERINE	TD
ACETIC ACID GLACIAL	A	BENZENE	TB	CUMENE	B	GLYCOLIC ACID 70%	A
ACETIC ANHYDRIDE	C	BENZYL ALCOHOL	C	CUTTING OIL	C	GREEN LIQUOR (PAPER)	C
ACETONE 10%	B	BLACK LIQUOR (PAPER)	TC	CYCLOHEXANE	C	HEPTANE	D
ACETONE 100%	B	BLOOD SUGAR	TC	CYCLOHEXANONE	C	HEXANE	D
ACETYL CHLORIDE	TB	BORAX	C	CYMENE	TC	HYDRAULIC FLUID	C
ACETONITRILE	C	BORIC ACID	B	DETERGENTS ORGANIC	TC	HYDRAZINE 35%	TB
		BRINE	D	DETERGENTS SULFONATED	TC	HYDRIODIC ACID 20%	C
ACRYLIC ACID	TB	BROMINE LIQUID	A	DEXTROSE	E	HYDROBROMIC ACID 18%	A
ACRYLONITRILE	A	BUTANOL	D	DIBUTYL PHTHALATE	D	HYDROBROMIC ACID 40%	A
ADIPIIC ACID 25%	B	BUTYL ACETATE	C	DICHLORACETIC ACID	TB	HYDROBROMIC ACID 60%	A
ALLYL ALCOHOL	TC	BUTYL ACRYLATE	TB	DICHLOROBENZENE	C	HYDROCHLORIC ACID 10%	D
ALLYL CHLORIDE	TB	BUTYL AMINE	TB	DICHLOROETHANE	B	HYDROCHLORIC ACID 36%	C
ALUMINUM BROMIDE	D	BUTYL CARBITOL	TC	DIESEL FUEL	C	HYDROFLUORIC ACID	A
ALUMINUM CHLORIDE	TD	BUTYL CELLOSOLVE	B	DIETHANOLAMINE	TC	HYDROGEN PEROXIDE 10%	C
ALUMINUM FLUORIDE	TB	BUTYL ETHER	B	DIETHYL BENZENE	TC	HYDROGEN PEROXIDE 50%	A
ALUMINUM HYDROXIDE	C	BUTYRIC ACID	B	DIETHYL KETONE	TB	HYDROGEN SULFIDE 5%	D
ALUMINUM NITRATE	C	CALCIUM BISULFITE	D	DIETHYLENE GLYCOL	C	HYDROGEN SULFIDE 100%	TB
ALUMINUM SULFATE	C	CALCIUM BROMIDE	TC	DIETHYL ETHER	C	HYPOCHLOROUS ACID	A
AMMONIA	D	CALCIUM CARBONATE	C	DIMETHYL ANILINE	TB	IODINE CRYSTALS/VAPOR	TC
		CALCIUM CHLORATE	C	DIMETHYL FORMAMIDE	A	ISOPHORONE	C
AMMONIUM CHLORIDE	TC	CALCIUM CHLORIDE	D	DIMETHYL SULFOXIDE	A	ISOPROPYL ACETATE	C
AMMONIUM FLUORIDE	TB	CALCIUM HYDROXIDE	C	DINITRO BENZENE	TB	ISOPROPYL ALCOHOL	C
AMMONIUM HYDROXIDE	TC	CALCIUM HYOCHLORITE	TC	DINITRO TOLUENE	TB	JET FUEL (JP-4)	D
AMMONIUM NITRATE	D	CALCIUM NITRATE	D	EPICHLOROHYDRIN	B	KEROSENE	C
AMMONIUM OXALATE	C	CALCIUM SULFATE	C	ETHANOL	D	LACTIC ACID 10-20%	D
AMMONIUM NITRATE	TD	CALCIUM SULFITE	C	ETHANOLAMINE	C	LACTIC ACID 50%	A
AMMONIUM PERSULFATE	C	CALCIUM DISULFIDE	B	ETHYL ACETATE	B	LACTIC ACID 85%	A
		CARBON TETRACHLORIDE	C	ETHYL ACRYLATE	B	LAURIC ACID	TB
AMMONIUM PHOSPHATE	C	CASTOR OIL	D	ETHYLAMINE	TB	LEAD ACETATE	TD
AMMONIUM SULFATE	C	CELLOSOLVE	TC	ETHYL BENZENE	TB	LEVULINIC ACID	TC
AMMONIUM SULFIDE	C	CELLOSOLVE ACETATE	C	ETHYL BROMIDE	A	LINSEED OIL	C
AMMONIUM SULFITE	C	CHLOROACETIC ACID 25%	A	ETHYL CHLORIDE	A	LITHIUM BROMIDE	TB
AMYL ACETATE	TB	CHLOROACETIC ACID 50%	A	ETHYL DICHLORIDE	A	LITHIUM CHLORIDE SAT'D	B
		CHLOROBENZENE	B	ETHYLENE GLYCOL	D	LITHIUM HYDROXIDE	TB
AMYL ALCOHOL	C	CHLOROFORM	A	ETHYL SULFATE	TB	MAGNESIUM BISULFITE	C
ANILINE	B	CHLOROPHENOL	A	FATTY ACIDS	TB	MAGNESIUM CARBONATE	C
		CHLOROSULFONIC ACID	A	FERRIC CHLORIDE	E	MAGNESIUM CHLORIDE	TB
ANILINE HYDROCHLORIDE	B	CHLOROTOLUENE	TB	FERRIC SULFATE	E		
ANTIMONY CHLORIDE	TB	CHROMIC ACID 10%	B	FERROUS NITRATE	C		
		CHROMIC ACID 40%	A	FERROUS CHLORIDE	TD		
AQUA REGIA	A	CHROMIC CHLORIDE	A	FERROUS SULFATE	TD		
ARSENOUS ACID	TB	CITRIC ACID	D	FLUOSILICIC ACID 10-25%	A		
BARIUM ACETATE	C	COPPER ACETATE	D	FORMALDEHYDE	B		
BARIUM BROMIDE	B	COPPER CHLORIDE	C	FORMIC ACID 10%	C		
BARIUM CARBONATE	B	COPPER CYANIDE	TC	FORMIC ACID 50%	A		
BARIUM CHLORIDE	D	COPPER NITRATE	TC	FUEL OIL	C		
		COPPER SULFATE	B	FURFURAL ALCOHOL	TB		

Chemical Resistance	ARM321	Phenol 85%	A	Sodium Hypochlorite 3%	B
Magnesium Hydroxide	B	Phosphoric Acid 40%	D	Sodium Hypochlorite 5-15%	A
Magnesium Nitrate	TC	Phosphoric Acid 85%	B	Sodium Oxalate	D
Magnesium Sulfate	TB	Picric Acid 10%	TB	Sodium Peroxide	C
Maleic Acid	B	Potassium Acetate	C	Sodium Phosphate 10%	C
Manganese Chloride	TB	Potassium Bromide	D	Sodium Silicate	TC
Manganese Sulfate	TB	Potassium Carbonate	D	Sodium Sulfate	D
Mercuric Chloride	TC	Potassium Chloride	C	Sodium Sulfide	D
Mercurous Chloride	TC	Potassium Hydroxide 10%	D	Sodium Sulfite	D
Methanol	B	Potassium Hydroxide 50%	C	Sodium Tartrate	D
Methyl Acetate	B	Potassium Iodide	TB	Sodium Thiosulfate	C
Methylamyl Alcohol	TC	Potassium Nitrate	D	Stearic Acid	B
Methyl Benzoate	B	Potassium Permanganate	TB	Styrene	B
Methyl Chloride	A	Potassium Persulfate	B	Sulfamic Acid 25%	TB
Methylene Chloride	A	Potassium Sulfate	C	Sulfuric Acid 10%	D
Methyl Ethyl Ketone	B	Propionic Acid	A	Sulfuric Acid 30%	C
Methyl Isobutyl Ketone	B	Propylene Glycol	D	Sulfuric Acid 98%	A
Milk	D	Pyridine	A	Tall Oil	C
Molasses	D	Salicylic Acid	TB	Tartaric Acid	TB
Mineral Oils	TD	Salt Brine	D	Tetrochloroethane	B
Mineral Spirits	C	Silver Nitrate	TB	Tetrahydrofuran	A
Motor Oil	C	Skydrol	D	Thionyl Chloride	A
M-Pyrol	A	Sodium Acetate	D	Toluene	C
Naphtha Aliphatic	C	Sodium Benzoate	D	Toluene Sulfonic Acid	B
Naphtha Aromatic	B	Sodium Bicarbonate	D	Toluidene	B
Nickel Chloride	TB	Sodium Bisulfite	TD	Trichloroacetic Acid 20%	A
Nickel Nitrate	C	Sodium Bisulfate	D	Trichloroethane	C
Nickel Sulfate	TB	Sodium Carbonate	D	Trichloroethylene	TB
Nitric Acid 5%	D	Sodium Chlorate 50%	TC	Tricesyl Phosphate	TB
Nitric Acid 30%	C	Sodium Chloride	C	Trisodium Phosphate	C
Nitric Acid 60%	A	Sodium Chlorite	C	Turpentine	C
Nitrobenzene	TB	Sodium Chromate	B	Urea Solutions	TC
Oil Sour Crude	C	Sodium Dichromate	B	White Liquor (Paper)	TC
Oil Sweet Crude	TC	Sodium Ferrocyanide	TC	Xylene	E
Oleic Acid	B	Sodium Fluoride	A	Zinc Chlorate	TC
Oleum	A	Sodium Hydroxide 10%	E	Zinc Sulfate	C
Oxalic Acid	B	Sodium Hydroxide 50%	D		
Perchloric Acid	A				
Perchloroethylene	B				
Phenol 5%	B				