



CHEMICAL RESISTANCE CHART

ArmorUltra Novolac Primer and Topcoat - Chemical and Acid Resistant Coatings
ARM257X/ARM253X

| 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 | ARM253 & ARM257 | BENZENE | TC | CREOSOTE | D |
|-----------------------|-----------------|-----------------------|-----------|-------------------------|------------|
| | | BENZYL ALCOHOL | E | CRESYLIC ACID | TC |
| ACETALDEHYDE | D | BLACK LIQUOR (PAPER) | TD | CUMENE | D |
| ACETIC ACID 5% | D | BLOOD SUGAR | TD | CUTTING OIL | D |
| ACETIC ACID 10% | B | BORAX | D | CYCLOHEXANE | E |
| ACETIC ACID 25% | B | BORIC ACID | C | CYCLOHEXANONE | D, E*(257) |
| ACETIC ACID GLACIAL | A | BRINE | E | CYMENE | TD |
| ACETIC ANHYDRIDE | D | BROMINE LIQUID | A | DETERGENTS ORGANIC | TD |
| ACETONE 10% | C | BUTANOL | E | DETERGENTS SULFONATED | TD |
| ACETONE 100% | C | BUTYL ACETATE | D | DEXTROSE | E |
| ACETYL CHLORIDE | TC | BUTYL ACRYLATE | TC | DIBUTYL PHTHALATE | E |
| ACETONITRILE | D | BUTYL AMINE | TC | DICHLORACETIC ACID | TB |
| ACRYLIC ACID | TD | BUTYL CARBITOL | TD | DICHLOROBENZENE | D |
| ACRYLONITRILE | TB | BUTYL CELLOSOLVE | C | DICHLOROETHANE | C |
| ADIPIC ACID 25% | C | BUTYL ETHER | D | DIESEL FUEL | D |
| ALLYL ALCOHOL | TD | BUTYRIC ACID | B | DIETHANOLAMINE | TD |
| ALLYL CHLORIDE | TC | CALCIUM BISULFITE | E | DIETHYL BENZENE | TD |
| ALUMINUM BROMIDE | D | CALCIUM BROMIDE | TD | DIETHYL KETONE | TD |
| ALUMINUM CHLORIDE | TD | CALCIUM CARBONATE | D | DIETHYLENE GLYCOL | E |
| ALUMINUM FLUORIDE | TD | CALCIUM CHLORATE | D | DIETHYL ETHER | D |
| ALUMINUM HYDROXIDE | D | CALCIUM CHLORIDE | E | DIMETHYL ANILINE | TC |
| ALUMINUM NITRATE | E | CALCIUM HYDROXIDE | E | DIMETHYL FORMAMIDE | A |
| ALUMINUM SULFATE | D | CALCIUM HYPOCHLORITE | TC | DIMETHYL SULFOXIDE | B |
| AMMONIA | E | CALCIUM NITRATE | E | DINITRO BENZENE | TC |
| AMMONIUM CHLORIDE | TD | CALCIUM SULFATE | C | DINITRO TOLUENE | TC |
| AMMONIUM FLUORIDE | TC | CALCIUM SULFITE | C | EPICHLOROHYDRIN | C |
| AMMONIUM HYDROXIDE | TD | CALCIUM DISULFIDE | B | ETHANOL | C |
| AMMONIUM NITRATE | E | CARBON TETRACHLORIDE | D | ETHANOLAMINE | D |
| AMMONIUM OXALATE | D | CASTOR OIL | D | ETHYL ACETATE | C |
| AMMONIUM NITRATE | TE | CELLOSOLVE | TD | ETHYL ACRYLATE | C |
| AMMONIUM PERSULFATE | D | CELLOSOLVE ACETATE | C | ETHYLAMINE | TC |
| AMMONIUM PHOSPHATE | D | CHLOROACETIC ACID 25% | C | ETHYL BENZENE | TD |
| AMMONIUM SULFATE | D | CHLOROACETIC ACID 50% | A | ETHYL BROMIDE | B |
| AMMONIUM SULFIDE | E | CHLOROBENZENE | D | ETHYL CHLORIDE | B |
| AMMONIUM SULFITE | E | CHLOROFORM | TC | ETHYL DICHLORIDE | TB |
| AMYL ACETATE | TD | CHLOROPHENOL | A | ETHYLENE GLYCOL | E |
| AMYL ALCOHOL | D | CHLOROSULFONIC ACID | A | ETHYL SULFATE | TD |
| ANILINE | C | CHLOROTOLUENE | TC | FATTY ACIDS | TD |
| ANILINE HYDROCHLORIDE | C | CHROMIC ACID 10% | B,C*(257) | FERRIC CHLORIDE | E |
| ANTIMONY CHLORIDE | TC | CHROMIC ACID 40% | B | FERRIC SULFATE | E |
| AQUA REGIA | A | CHROMIC CHLORIDE | B | FERROUS NITRATE | E |
| ARSENOUS ACID | TC | CITRIC ACID | E | FERROUS CHLORIDE | TD |
| BARIUM ACETATE | D | COPPER ACETATE | E | FERROUS SULFATE | TE |
| BARIUM BROMIDE | D | COPPER CHLORIDE | D | FLUOSILICIC ACID 10-25% | A |
| BARIUM CARBONATE | D | COPPER CYANIDE | TD | FORMALDEHYDE | D |
| BARIUM CHLORIDE | D | COPPER NITRATE | TD | FORMIC ACID 10% | D |
| BARIUM HYDROXIDE | TD | COPPER SULFATE | D | FORMIC ACID 50% | B |
| BARIUM SULFATE | D | CORN OIL | D | FUEL OIL | E |
| BARIUM SULFIDE | C | CORN STARCH SLURRY | E | FURFURAL ALCOHOL | TC |
| BENZYL CHLORIDE | TC | CORN SUGAR | E | GASOLINE AVIATION | D |
| BENZOIC ACID | C | COTTONSEED OIL | D | GASOLINE DIESEL | D |

| Chemical Resistance | ARM 253 & ARM257 | METHYLAMYL ALCOHOL | TD | SODIUM BENZOATE | E |
|------------------------|------------------|-------------------------|----|---------------------------|--------------|
| Gasoline Jet Fuel | D | METHYL BENZOATE | D | SODIUM BICARBONATE | E |
| GASOLINE UNLEADED | E | METHYL CHLORIDE | B | SODIUM BISULFITE | TE, TD*(257) |
| | | METHYLENE CHLORIDE | A | | |
| GLUCOSE | E | METHYL ETHYL KETONE | C | SODIUM BISULFATE | E |
| GLYCERINE | TE | METHYL ISOBUTYL KETONE | D | SODIUM CARBONATE | E |
| GLYCOLIC ACID 70% | TB | | | SODIUM CHLORATE 50% | TD |
| GREEN LIQUOR (PAPER) | E | MILK | E | SODIUM CHLORIDE | E |
| HEPTANE | E | MOLASSES | E | SODIUM CHLORITE | D |
| HEXANE | E | MINERAL OILS | TE | SODIUM CHROMATE | D |
| HYDRAULIC FLUID | E | MINERAL SPIRITS | D | SODIUM DICHROMATE | D |
| HYDRAZINE 35% | TC | MOTOR OIL | D | SODIUM FERROCYANIDE | TD |
| HYDRIODIC ACID 20% | D | M-PYROL | A | SODIUM FLUORIDE | TB |
| HYDROBROMIC ACID 18% | C | NAPHTHA ALIPHATIC | E | SODIUM HYDROXIDE 10% | E |
| | | NAPHTHA AROMATIC | D | | |
| HYDROBROMIC ACID 40% | TB | NICKEL CHLORIDE | TC | SODIUM HYDROXIDE 50% | E |
| HYDROBROMIC ACID 60% | TB | NICKEL NITRATE | D | SODIUM HYPOCHLORITE 3% | D |
| HYDROCHLORIC ACID 10% | D | NICKEL SULFATE | TD | SODIUM HYPOCHLORITE 5-15% | A |
| HYDROCHLORIC ACID 36% | D | NITRIC ACID 5% | E | SODIUM OXALATE | E |
| HYDROFLUORIC ACID | A | NITRIC ACID 30% | C | SODIUM PEROXIDE | E |
| HYDROGEN PEROXIDE 10% | C | NITRIC ACID 60% | A | SODIUM PHOSPHATE 10% | E |
| HYDROGEN PEROXIDE 50% | A | NITROBENZENE | TC | SODIUM SILICATE | TD |
| HYDROGEN SULFIDE 5% | D | OIL SOUR CRUDE | E | SODIUM SULFATE | E |
| HYDROGEN SULFIDE 100% | TD | OIL SWEET CRUDE | TE | SODIUM SULFIDE | E |
| HYPOCHLOROUS ACID | A | OLEIC ACID | D | SODIUM SULFITE | E |
| IODINE CRYSTALS/VAPOR | TD | OLEUM | B | SODIUM TARTRATE | E |
| ISOPHORONE | E | OXALIC ACID | D | SODIUM THIOSULFATE | E |
| ISOPROPYL ACETATE | E | PERCHLORIC ACID | C | STEARIC ACID | D |
| ISOPROPYL ALCOHOL | E | PERCHLOROETHYLENE | D | STYRENE | D |
| JET FUEL (JP-4) | D | PHENOL 5% | C | SULFAMIC ACID 25% | TC |
| KEROSENE | D | PHENOL 85% | A | SULFURIC ACID 10% | E |
| LACTIC ACID 10-20% | D | PHOSPHORIC ACID 40% | D | SULFURIC ACID 30% | D |
| LACTIC ACID 50% | C | PHOSPHORIC ACID 85% | B | SULFURIC ACID 98% | C |
| LACTIC ACID 85% | A | PICRIC ACID 10% | TD | TALL OIL | E |
| LAURIC ACID | TD | POTASSIUM ACETATE | E | TARTARIC ACID | TD |
| LEAD ACETATE | TE | POTASSIUM BROMIDE | E | TETROCHLOROETHANE | D |
| LEVULINIC ACID | TD | POTASSIUM CARBONATE | E | TETRAHYDROFURAN | A |
| LINSEED OIL | D | POTASSIUM CHLORIDE | D | THIONYL CHLORIDE | A |
| LITHIUM BROMIDE | TD | POTASSIUM HYDROXIDE 10% | E | TOLUENE | D |
| LITHIUM CHLORIDE SAT'D | D | POTASSIUM HYDROXIDE 50% | D | TOLUENE SULFONIC ACID | D |
| LITHIUM HYDROXIDE | TC | POTASSIUM IODIDE | TD | TOLUIDENE | D |
| MAGNESIUM BISULFITE | D | POTASSIUM NITRATE | E | TRICHLOROACETIC ACID 20% | B |
| MAGNESIUM CARBONATE | D | POTASSIUM PERMANGANATE | TD | TRICHLOROETHANE | C |
| MAGNESIUM CHLORIDE | TC | POTASSIUM PERSULFATE | D | TRICHLOROETHYLENE | TC |
| MAGNESIUM HYDROXIDE | C | POTASSIUM SULFATE | E | TRICESYL PHOSPHATE | TD |
| MAGNESIUM NITRATE | TD | PROPIONIC ACID | C | TRISODIUM PHOSPHATE | E |
| MAGNESIUM SULFATE | TD | PROPYLENE GLYCOL | E | TURPENTINE | D |
| MALEIC ACID | C | PYRIDINE | A | UREA SOLUTIONS | TE |
| MANGANESE CHLORIDE | TD | SALICYLIC ACID | TD | WHITE LIQUOR (PAPER) | TD |
| MANGANESE SULFATE | TD | SALT BRINE | E | XYLENE | D |
| MERCURIC CHLORIDE | TE | SILVER NITRATE | TD | ZINC CHLORATE | TD |
| MERCUROUS CHLORIDE | TE | SKYDROL | C | ZINC SULFATE | E |
| METHANOL | C | SODIUM ACETATE | E | | |
| METHYL ACETATE | C | | | | |