

TD.400 – TECHNICAL DATA: Industrial Coatings Chemical Resistance Guide

Revised: 3/16/2023 Version: 1.2

1 = CONSTANT IMMERSION
3 = SECONDARY CONTAINMENT (72 HOURS)
NR= NOT RECOMMENDED

2 = INTERMITTENT IMMERSION
4 = SPLASH&SPILL, IMMEDIATE CLEAN UP

A = E100-VR1™ - B = E100-PT1™ & E100-UV1™ - C = E100-PT4™ - D = E100-NV4™ - E = E100-NV5™

REAGENT	A, B, C	D	E	REAGENT	A, B, C	D	E
ACETALDEHYDE	3	3	2	AMMONIUM NITRATE	3	3	2
ACETAMIDE	2	2	2	AMMONIUM PERSULFATE	3	3	2
ACETATE SOLVENT	4	4	3	AMMONIUM PHOSPHATE	3	3	2
ACETIC ACID 1-10%	3	3	2	AMMONIUM SULFATE	3	3	2
ACETIC ACID 11-25%	4	4	2	AMMONIUM SULFITE	4	4	3
ACETIC ACID 26-100%	NR	NR	3	AMYL ACETATE	3	3	2
GLACIAL ACETIC 100%	NR	NR	3	AMYL ALCOHOL	3	3	2
ACETIC ANHYDRIDE	2	2	2	AMYL CHLORIDE	2	2	2
ACETONE 90°F	4	4	4	ANILINE	4	4	3
ACETONITRILE	3	3	2	ANILINE HYDROCHLORIDE	4	4	3
ACETOPHENONE	4	4	3	ANIMAL OIL (LARD)	3	3	2
ACETYL CHLORIDE	4	4	3	ANTI-FREEZE (ALCOHOL)	4	4	2
ACETYLENE	3	3	2	ANTI-FREEZE (GLYCOL)	4	4	2
ACID MINE WATER	2	2	1	ANTIMONY TRICHLORIDE	4	4	3
ACRYLONITRILE	3	3	2	AQUA REGIA	4	4	3
ADIPIC ACID	3	3	2	AROCLOR	3	3	2
AERO LUBRIPLATE	4	4	2	AROMATIC HYDROCARBONS	4	4	4
AEROSAFE 2300	4	4	2	ARSENIC ACID	3	3	2
AEROSAFE 2300W	4	4	2	ASPHALT	2	2	1
AEROSAFE 1AC	4	4	2	ASPHALT EMULSIONS	4	4	2
AEROSHELL 17 GREASE	3	3	2	BANANA OIL	4	4	2
AEROSHELL 7A GREASE	3	3	2	BARBEQUE SAUCE	3	3	2
AEROSHELL 750	3	3	2	BARIUM CARBONATE	3	3	2
ALCOHOL(RUBBING)	4	4	2	BARIUM CHLORIDE	3	3	2
ALKALINE SOLUTIONS	3	3	2	BARIUM CYANIDE	3	3	2
ALLYL ALCOHOL	4	4	2	BARIUM HYDROXIDE	3	3	2
ALLYL CHLORIDE	3	3	2	BARIUM NITRATE	3	3	2
ALMOND OIL(ARTIFICIAL)	3	3	2	BARIUM SULFATE	3	3	2
ALUMINUM CHLORIDE	3	3	2	BARIUM SULFIDE	4	4	2
ALUMINUM				BEER	2	2	2
CHLOROHYDROXIDE	3	3	2	BEET SUGAR LIQUIDS	3	3	2
ALUMINUM FLUORIDE	3	3	2	BEET SUGAR LIQUORS	3	3	2
ALUMINUM HYDROXIDE	3	3	2	BENZALDEHYDE	3	3	2
ALUMINUM NITRATE	3	3	2	BENZENE	4	4	3
ALUMINUM POTASSIUM				BENZENE SULFONIC ACID	3	3	2
SULFATE	3	3	2	BENZOIC ACID	3	3	2
ALUMINUM SULFATE	3	3	2	BENZONITRILE	4	4	3
AMINES	3	3	2	BENZYL ALCOHOL	2	2	2
AMINOETHANOL	3	3	2	BENZYL CHLORIDE	2	2	2
AMMONIA ANHYDROUS	3	3	2	BLEACH(LIQUOR)	4	4	3
AMMONIA AQUEOUS	3	3	2	BLEACH SOLUTIONS	4	4	3
AMMONIUM BIFLUORIDE	3	3	2	BLEACH POWDER	4	4	2
AMMONIUM CARBONATE	3	3	2	BLOOD	3	3	2
AMMONIUM CHLORIDE	3	3	2	BORAX	2	2	1
AMMONIUM FLUORIDE	3	3	2	BORIC ACID	3	3	2
AMMONIUM HYDROXIDE	3	3	1	BREAK FLUID (PETROLEUM)	3	3	2
				BREAK FLUID (NON-PETROLEUM)	3	3	2
				BROMINE GAS (DRY)	NR	NR	4

1151 Transport Drive Valparaiso, IN 46383
Toll Free 888.323.4445 • P 219.465.7671
elitecrete.com

BROMINE GAS WET	NR	NR	3	DE-IONIZED WATER	1	1	1
BUTADIENE	3	3	2	DETERGENT SOLUTIONS	2	2	1
BUTANE	3	3	2	DETERGENT GENERAL	2	2	2
BUTANOL	3	3	2	DIACETONE ALCOHOL	3	3	2
BUTTER	3	3	2	DIBASIC ESTER	3	3	2
BUTTERMILK	3	3	2	DIBUTYL PHTHALATE	2	2	2
BUTYL ACETATE	3	3	1	DICHLOROBENZENE	4	4	3
BUTYL AMINE	3	3	2	DICHLORODIFLUORO METHANE	4	4	3
BUTYL CELLOSOLVE	3	3	1	DICHLOROETHANE	4	4	3
BUTYL CHLORIDE	4	4	3	DICHLOROETHYLENE	3	3	2
BUTYL ETHER	3	3	2	DISOBUTYLENE	3	3	2
BUTYL PHTHALATE	3	3	2	DIESEL FUEL	1	1	1
BUTYLENE	3	3	2	DIETHYLAMINE	3	3	2
CALCIUM BISULFITE	3	3	2	DIMETHYL ANILINE	3	3	2
CALCIUM CARBONATE	2	2	1	DIMETHYL PHTHALATE	4	4	3
CALCIUM CHLORIDE	2	2	2	DIPHENYL ETHER	3	3	2
CALCIUM HYDROXIDE 30%	3	3	2	DIPHENYL OXIDE	3	3	2
CALCIUM HYPOCHLORITE	3	3	2	EPICHLOROHYDRIN DRY	4	4	3
CALCIUM NITRATE	3	3	2	ETHANE	3	3	2
CALCIUM SULFATE	3	3	2	ETHANOL	3	3	2
CANE JUICE	3	3	2	ETHANOLAMINE	3	3	2
CANE SUGAR LIQUORS	3	3	2	ETHYL ACETATE	3	3	2
CARBOLIC ACID (PHENOL)	4	4	2	ETHYL CHLORIDE WET	3	3	2
CARBON DIOXIDE	3	3	2	ETHYL ETHER	4	4	3
CARBON DISULFIDE	4	4	3	ETHER SULFATE	3	3	2
CARBON MONOXIDE	3	3	2	ETHYLENE CHLORIDE	4	4	3
CARBON TETRACHLORIDE	2	2	1	ETHYLENE GLYCOL	3	3	2
CARBONIC ACID	4	4	3	ETHYLENE OXIDE	3	3	2
CASTOR OIL	3	3	2	FATTY ACIDS	3	3	2
CATSUP	2	2	1	FERRIC CHLORIDE	3	3	2
CAUSTIC	3	3	2	FERRIC NITRATE	3	3	2
CELLOSOLVE ACETATE	3	3	2	FERRIC SULFATE	3	3	2
CELLOSOLVE BUTYL	3	3	2	FERROUS CHLORIDE	3	3	2
CELLOSOLVE	3	3	2	FERROUS SULFATE	3	3	2
CHLORINATED WATER	3	3	2	FLUOBORIC ACID	3	3	2
CHLORINE DRY	3	3	2	FLUOSILICIC ACID	4	4	3
CHLORINE WET	NR	NR	3	FORMALDEHYDE	4	4	3
CHLOROBENZENE	4	4	3	FREON DRY	4	4	3
CHLOROSULFONIC ACID				FUEL OIL	3	3	2
DILUTE	4	4	3	FURAN	2	2	1
CHOCOLATE SYRUP	4	4	2	FURFURAL	2	2	1
CHROMIC ACID DILUTE	4	4	2	GAS NATURAL	3	3	2
CIDER APPLE JUICE	3	3	2	GASOLINE AVIATION	1	1	1
CITRIC ACID CONCENTRATED	2	2	1	GASOLINE ALL	1	1	1
CLOREX BLEACH	4	4	3	GELATIN	3	3	2
COCA COLA SYRUP	3	3	2	GLUCOSE	3	3	2
COCONUT OIL	3	3	2	GLUE	3	3	2
COD LIVER OIL	2	2	1	GLYCERINE	3	3	2
COPPER CYANIDE	3	3	2	GLYCOL	3	3	2
COPPER FLUORIDE	3	3	2	GLYCOLIC ACID	3	3	2
COPPER NITRATE	3	3	2	GRAPE JUICE	3	3	2
COPPER SULFATE	3	3	2	GRAPE FRUIT OIL	3	3	2
CORN OIL	2	2	1	GREASE ALL	2	2	2
COTTONSEED OIL	2	2	1	HEPTANE	2	2	2
CREOSOTE	3	3	2	HEXANE	2	2	2
CRESYLIC ACID	3	3	2	HEXANOL TERTIARY	3	3	2
CRUDE OIL	2	2	1	HONEY	2	2	1
CEPRIC CHLORIDE	3	3	2	HYDRAULIC FLUIDS	2	2	2
CUTTING OILS ALL	3	3	2	HYDRAZINE	3	3	2
CYANIC ACID	3	3	2	HYDROCHLORIC ACID 1-37%	2	2	2
CYCLOHEXANE	2	2	1	HYDROFLUORIC ACID 1-20%	2	2	2
CYCLOHEXANOL	2	2	2	HYDROFLUOSILICIC ACID	4	4	3
CYCLOHEXANONE	4	4	3	HYDROGEN CHLORIDE GAS	3	3	2

1151 Transport Drive Valparaiso, IN 46383
Toll Free 888.323.4445 • P 219.465.7671
elitecrete.com

HYDROGEN CYANIDE	3	3	2	NITRO BENZENE	NR	NR	3
HYDROGEN FLUORIDE ANHYD	4	4	3	OILS CRUDE	2	2	1
HYDROGEN GAS	3	3	2	OILS MINERAL	2	2	1
HYDROGEN PEROXIDE	4	4	3	OILS VEGETABLE	2	2	1
HYDROGEN SULFIDE	3	3	2	OILS WASTE	2	2	1
HYPOCHLOROUS ACID	4	4	3	OLEIC ACID	3	3	2
ISOCTANE	3	3	2	OLIVE OIL	3	3	2
ISOPROPANOL	1	1	1	OXALIC ACID	3	3	2
ISOPROPYL ACETATE	2	2	2	PARAFFIN	2	2	1
ISOPROPYL ALCOHOL	3	3	2	PEANUT OIL	2	2	1
JET FUEL JP4-6	2	1	1	PENTANE	3	3	2
KEROSENE	2	1	1	PETROLEUM	2	1	1
KETCHUP	2	2	1	PETROLEUM ETHER	3	3	2
KEYTONES	NR	4	4	PHOSPHORIC ACID 1-85%	4	3	2
LACQUERS	3	3	2	PHOSPHORUS TRICHLORIDE	3	3	2
LACTIC ACID 1-50%	4	4	2	PHOTOGRAPHIC SOLUTIONS	3	3	2
LARD	3	3	2	PLATING SOLUTIONS BRASS	NR	4	3
LATEX	1	1	1	PLATING SOLUTIONS CADMIUM	NR	4	3
LEAD ACETATE	2	2	1	PLATING SOLUTIONS CHROME	4	4	4
LEAD SULFAMATE	2	2	1	PLATING SOLUTIONS COPPER	4	4	2
LIME	1	1	1	PLATING SOLUTIONS GOLD	4	4	3
LINSEED OIL	2	2	1	PLATING SOLUTIONS LEAD	4	4	3
LPG PROPANE	2	2	2	PLATING SOLUTIONS NICKEL	4	3	2
LUBRICATION OIL	2	2	1	PLATING SOLUTIONS SILVER	4	3	2
LYE	2	2	1	PLATING SOLUTIONS TIN	4	3	2
M CRESOL	2	2	1	PLATING SOLUTIONS ZINC	4	3	2
MAGNESIUM CARBONATE	2	2	1	POTASSIUM ALUMINUM			
MAGNESIUM CHLORIDE	2	2	1	SULFATE	3	3	2
MAGNESIUM HYDROXIDE	2	2	1	POTASSIUM BICARBONATE	3	3	2
MAGNESIUM NITRATE	2	2	1	POTASSIUM BICHROMATE	4	4	2
MAGNESIUM SULFATE	2	2	1	POTASSIUM BROMIDE	3	3	2
MALEIC ACID	3	3	2	POTASSIUM CARBONATE	3	3	1
MALIC ACID	4	4	3	POTASSIUM CHLORATE	3	3	1
MAYONNAISE	3	3	2	POTASSIUM CHLORIDE	3	3	1
MERCURIC CHLORIDE	3	3	2	POTASSIUM CHROMATE	4	4	2
MERCURIC CYANIDE	3	3	2	POTASSIUM CYANIDE	4	4	3
MERCURIOSUS NITRATE	4	4	2	POTASSIUM DICHROMATE	4	4	3
MERCURY	3	3	2	POTASSIUM FERRICYANIDE	4	3	2
METHANOL	3	2	2	POTASSIUM FERROCYANIDE	4	3	2
METHYL ALCOHOL	4	4	3	POTASSIUM HYDROXIDE	4	3	1
METHYL AMINE	3	3	2	POTASSIUM HYPOCHLORITE	4	4	3
METHYL BROMIDE	4	4	3	POTASSIUM NITRATE	4	4	2
METHYL CELLOSOLVE	4	4	3	POTASSIUM PERMANGANATE	4	3	2
METHYL CHLORIDE DRY/WET	3	3	2	POTASSIUM SULFATE	3	3	2
METHYL ETHYL KETONE	4	4	4	POTASSIUM SULFIDE	3	3	2
METHYLENE CHLORIDE	NR	NR	NR	POTASSIUM SULFITE	3	3	2
MILK	2	2	1	PROPANE	4	3	2
MINERAL OIL	2	2	1	PROPYL ALCOHOL	3	3	2
MOLASSES	2	2	1	PROPYLENE GLYCOL	3	3	2
MONOCHLOROBENZENE	4	4	3	PYDRAUL	4	3	2
MONOETHANOLAMINE	3	3	2	PYRIDINE	4	3	2
MOTOR OIL	1	1	1	PYROGALLIC ACID	4	3	2
MURIATIC ACID	3	3	1	PYROLIGNEOUS ACID	4	4	3
MUSTARD	3	3	2	QUININE SULFATE	3	3	2
N-OCTANE	3	3	2	RESORCINOL	4	4	3
NAPHTHALENE	3	3	2	ROSIN	4	3	2
NICKEL CHLORIDE	3	3	2	RUM	4	4	2
NICKEL NITRATE	3	3	2	SALAD DRESSING	3	3	2
NICKEL SULFATE	3	3	2	SALICYLALDEHYDE	4	3	2
NITRIC ACID 1-10%	3	2	1	SALICYLIC ACID	4	3	2
NITRIC ACID 11-25%	4	3	2	SALT BRINE	2	1	1
NITRIC ACID 26-35%	4	4	3	SALT WATER	1	1	1
NITRIC ACID 36-50%	NR	NR	4	SEA WATER	1	1	1

1151 Transport Drive Valparaiso, IN 46383
Toll Free 888.323.4445 • P 219.465.7671
elitecrete.com

SEWAGE	2	1	1	SULFATE LIQUOR GREEN	4	3	1
SHELLAC	4	3	2	SULFATE LIQUOR WHITE	4	3	1
SILICONE OIL	3	3	2	SULFINOL	4	4	2
SILVER BROMIDE	4	3	2	SULFUR	4	3	2
SILVER CYANIDE	NR	4	3	SULFUR CHLORIDE	4	4	3
SILVER NITRATE	4	3	2	SULFUR DIOXIDE WET	4	4	3
SKYDROL	2	1	1	SULFUR TRIOXIDE	4	3	2
SOAP SOLUTIONS	1	1	1	SULFURIC ACID 1-85%	4	3	1
SODIUM ACETATE	2	2	1	SULFURIC ACID 86-98%	NR	4	1
SODIUM ALUMINATE	3	3	2	SULFUROUS ACID	4	3	2
SODIUM ALUMINUM SULFATE	3	3	2	TALLOW	3	3	2
SODIUM BENZOATE	3	3	2	TANNIC ACID	4	3	2
SODIUM BICARBONATE	2	2	1	TANNING LIQUOR	4	3	2
SODIUM BICHROMATE	3	3	2	TAR & TAR OIL	4	3	2
SODIUM BISULFATE	3	3	2	TARTARIC ACID	4	3	2
SODIUM BISULFITE	3	3	2	TETRAHYDROFURAN	4	3	2
SODIUM BORATE	3	3	2	TETRAHYDRONAPHTHALINE	4	4	3
SODIUM BROMIDE	3	3	2	TETRAPHOSPHORIC ACID	4	4	3
SODIUM CARBONATE	4	3	2	TIN TETRACHLORIDE	4	3	2
SODIUM CHLORATE	3	3	2	TOLUENE	4	2	1
SODIUM CHLORIDE	3	3	2	TOMATO JUICE	2	2	1
SODIUM CHROMATE	4	4	3	TRANSFORMER OIL	4	3	2
SODIUM CITRATE	4	3	2	TRANSMISSION FLUID	4	3	2
SODIUM CYANIDE	4	3	2	TRIBUTYL PHOSPHATE	4	3	2
SODIUM DICHROMATE	3	3	2	TRICHLOROETHANE	4	3	2
SODIUM FERRICYANIDE	3	3	2	TRICHLOROPROPANE	4	3	2
SODIUM FLUORIDE	3	3	2	TRICHLOROTRIFLUOROETHANE	4	3	2
SODIUM HYDROXIDE	2	2	1	TRICRESYL PHOSPHATE	3	3	2
SODIUM HYPOCHLORITE	4	3	2	TRIETHANOLAMINE	4	3	2
SODIUM HYPOSULFITE	4	3	2	TRIETHYLAMINE	4	3	2
SODIUM METAPHOSPHATE	3	3	2	TRISODIUM PHOSPHATE	3	3	2
SODIUM METASILICATE	3	3	2	TUNG OIL	4	3	2
SODIUM NITRATE	4	3	2	UNDECYL ALCOHOL	4	3	2
SODIUM PERBORATE	4	4	3	UREA	4	3	2
SODIUM PEROXIDE	NR	NR	4	URINE	1	1	1
SODIUM PHOSPHATES	4	4	3	VANILLA EXTRACT	2	1	1
SODIUM SILICATE	3	3	2	VARNISH	4	3	2
SODIUM SULFATE	3	3	2	VEGETABLE JUICES	2	2	1
SODIUM SULFIDE	2	2	1	VEGETABLE OIL	2	2	1
SODIUM SULFITE	3	3	2	VINEGAR	4	3	2
SODIUM THIOSULFATE	3	3	2	VINYL ACETATE	4	3	2
SOYBEAN OIL	3	3	2	VINYL CHLORIDE	4	4	2
SOY SAUCE	3	3	2	WATER (ALL)	1	1	1
STANNIC CHLORIDE	3	3	2	WAX	1	1	1
STANNOUS CHLORIDE	3	3	2	WHISKEY	4	3	2
STARCH	3	3	2	WHITE LIQUOR	4	3	1
STEARIC ACID	4	3	2	WINE	4	3	2
STODDARD SOLVENT	4	3	3	XYLENE	4	4	3
STYRENE	4	3	2	ZINC CHLORIDE	4	3	2
SUGAR	2	2	1	ZINC SULFATE	4	3	2
SULFATE LIQUOR BLACK	4	3	1				

The chemical ratings are based on continuous immersion testing and actual field applications, and are intended to serve only as a guide. It is the user's responsibility to verify the suitability of the coating for the intended service by performing test patches.

COATING THICKNESS REQUIREMENTS:

1 = 3/16" FLOORS, 3/16 WALLS

3 = 1/8"-3/16" FLOORS, 1/8"-3/16" WALLS

2 = 1/8" FLOORS, 21 MILS WALLS

4 = 1/8" FLOORS, 21 MILS WALLS