Caractéristiques chimiques des revêtements EPC

Légende

- A - Pas d'effet / excellent
- B - Effet mineur / bon
- C - Effet modéré / acceptable
- D - Effet sévère / Non recommandé

Explication des notes

- 1 - Acceptable jusqu'à 22 °C
- 2 - Acceptable jusqu'à 49 °C

Acetaldehyde	D
Acetamide	D
Acetate Solvent	D
Acetic Acid, Glacial	D
Acetic Acid 20%	D
Acetic Acid 50%	-
Acetic Acid 80%	D
Acetic Acid	D
Acetic Acid 50%	
Acetic Anhydride	D
Acetone	D
Acetyl Chloride (dry)	C
Acetylene	A1
Acrylonitrile	
ALCOHOLS	
Amyl	A2
Benzyl	D
Butyl	A2
Diacetone	B2
Ethyl	C
Hexyl	A2
Isobutyl	A1
Isopropyl	A1
Methyl	A1
Octyl	-
Propyl	A1
Aluminum Chloride 20%	A1
Aluminum Chloride	A2
Aluminum Fluoride	A2
Aluminum Hydroxide	A2
Aluminum Potassium Sulfate 10%	A2
Aluminum Potassium Sulfate 100%	A2
Aluminum Sulfate	A2
Amines	D
Ammonia 10%	B1
Ammonia, anhydrous	A2
Ammonia, liquid	A2
Ammonia Nitrate	B
Ammonium Bifluoride	A2
Ammonium Carbonate	A2
Ammonium Casenite	-
Ammonium Chloride	A2
Ammonium Hydroxide	A
Ammonium Nitrate	A2
Ammonium Oxalate	A
Ammonium Persulfate	A2
Ammonium Phosphate, Dibasic	A2
Ammonium Phosphate, Monobasic	A
Ammonium Phosphate, Tribasic	A
Ammonium Sulfate	A2
Ammonium Thiosulfate	-
Amyl Acetate	C1
Amyl Alcohol	A2
Amyl Chloride	D
Aniline	C1
Anti-Freeze	A
Antimony Trichloride	A2
Aqua Regia (80% HCl, 20% HNO3)	C1
Arochlor 1248	-
Aromatic Hydrocarbons	D
Arsenic Acid	A1
Asphalt	A2
Automatic transmission (125 °C)	-
Barium Carbonate	A2
Barium Chloride	A1
Barium Cyanide	D
Barium Hydroxide	A2
Barium Nitrate	A
Barium Sulfate	B1
Barium Sulfide	A2
Benzaldehyde	D
Benzene	C1
Benzoic Acid	A
Benzol	-
Borax (Sodium Borate)	B1
Boric Acid	A2
Bromine	C1
Butadiene	C1
Butane	C1
Butanol(Butyl Alcohol)	B1
Butylene	C1
Butylacetate	D
Butyric Acid	B1
Calcium Bisulfate	-
Calcium Bisulfide	A2
Calcium Bisulfite	B
Calcium Carbonate	A2
Calcium Chlorate	A2
Calcium Chloride	A2
Calcium Hydroxide	A2
Calcium Hypochlorite	B1
Calcium Sulfate	A2
Calgon	-
Carbolic Acid (see Phenol)	C
Carbon Bisulfide	D
Carbon Dioxide	A
Carbon Dioxide (Dry)	A
Carbon Dioxide (Wet)	A
Carbon Disulfide	D
Carbon Monoxide	A2
Carbon Tetrachloride	B1
Carbonated Water	A
Carbonic Acid	A2
Chloroacetic Acid	B1
Chloric Acid	A2
Chlorinated Glue	-
Chlorine, anhydrous liquid	C1
Chlorine, dry	A2
Chlorine Water	A2
Chlorobenzene (Mono)	D
Chlor°Form	D
Chlorosulfonic Acid	C
Chromic Acid 5%	A
Chromic Acid 10%	A2
Chromic Acid 30%	B2
Chromic Acid 50%	C2
Citric Acid	B2
Citric Oils	-
Clorox (Bleach)	A
Copper Chloride	A
Copper Cyanide	A2
Copper Fluoborate	A
Copper Nitrate	B2
Copper Sulfate 5%	A2
Copper Sulfate > 5%	A2
Cresols	D
Cresylic Acid	C1
Cyanic Acid	-
Cyclohexane	D
Detergents	A
Dichlorethane	D
Diesel Fuel	A2
Diethylamine	D
Diethylene Glycol	A
Diethylether	-
Diphenyl Oxide	D
Dyes	B
Epsom Salts (Magnesium Sulfate)	A2
Ethane	D
Ethanol	-
Ethanolamine	D
Ether	D
Ethyl Acetate	C1
Ethyl Chloride	D
Ethyl Sulfate	-
Ethylene Chloride	D
Ethylene Dichloride	D

Ethylene Glycol (Antifreeze/water, 50/50, 125 °C)	A1
Ethylene Oxide	C1
Fatty Acids	B1
Ferric Chloride	A2
Ferric Nitrate	A2
Ferric Sulfate	A2
Ferrous Chloride	A2
Ferrous Sulfate	A2
Fluoboric Acid	A2
Fluorine	D
Fluosilicic Acid	A1
Formaldehyde 40%	A1
Formaldehyde 100%	A
Formic Acid	A1
Freon 11	A2
Freon 12	A2
Freon 22	B
Freon 113	B
Freon TF	B
Fuel Oils	A2
Fuel B (Isooctane/Toluene, 70/30)	-
Fuel C (Isooctane/Toluene, 50/50)	-
Furan Resin	A
Furfural	D
Gallic Acid	A2
Gasoline	C1
Glycerin	A1
Glycerol	-
Glycolic Acid	A2
Gold Monocyanide	-
Grease	A
Heptane	C1
Hexane	B1
Hydaulic Oil (Petro)	A
Hydraulic Oil (Synthetic, 100 °C)	A
Hydrazine	-
Hydrobromic Acid 20%	B2
Hydrobromic Acid 100%	A1
Hydrochloric Acid, Dry Gas	A2
Hydrochloric Acid 10%	-
Hydrochloric Acid 20%	A2
Hydrochloric Acid 37%	B
Hydrochloric Acid 100%	B2
Hydrocyanic Acid	A1
Hydrocyanic Acid (Gas 10%)	A
Hydr°Fluoric Acid 20%	B
Hydr°Fluoric Acid 50%	B1
Hydr°Fluoric Acid 75%	C
Hydr°Fluoric Acid 100%	C
Hydr°Fluosilicic Acid 20%	A2
Hydr°Fluosilicic Acid 100%	B1
Hydrogen Gas	A2
Hydrogen Peroxide 10%	A1
Hydrogen Peroxide 30%	A1
Hydrogen Peroxide 50%	A1
Hydrogen Peroxide 100%	C2
Hydrogen Sulfide (aqua)	B1
Hydrogen Sulfide (dry)	A2
Hydroxyacetic Acid 70%	D
Ink	C
Iodine	D
Iodine (in alcohol)	-
Iod°Form	A
Isotane	A
Isopropyl Acetate	D
Isopropyl Ether	B
Jet Fuel (JP3, -4, -5)	A1
Kerosene	A2
Ketones	B
Lacquers	C
Lacquer Thinners	C
Lactic Acid	B1
Lead Acetate	A2
Lead Sulfamate	A2
Ligroin	-
Lime	A1
Lithium Grease (100 oC)	-
Lubricants	B2
Magnesium Carbonate	A2
Magnesium Chloride	A2
Magnesium Hydroxide	A2
Magnesium Nitrate	A2
Magnesium Oxide	-
Magnesium Sulfate	A2
Maleic Acid	A2
Maleic Anhydride	-
Malic Acid	A2
Melamine	A2
Mercuric Chloride (Dilute)	A2
Mercuric Cyanide	B2
Mercury	B
Methanol (Methyl Alcohol)	A1
Methyl Acetate	D
Methyl Acrylate	-
Methyl Acetone	D
Methyl Alcohol 10%	A1
Methyl Bromide	D
Methyl Butyl Ketone	A
Methyl Cellosolve	B2
Methyl Chloride	D
Methyl Dichloride	A
Methyl Ethyl Ketone	D
Methyl Isobutyl Ketone	D
Methyl Isopropyl Ketone	-
Methyl Methacrylate	-
Methylamine	A
Methylene Chloride	D
Naphtha	C
Naphthalene	D
n-Butyl Acetate	-
n-Hexane	-
Nickel Chloride	A2
Nickel Sulfate	A2
Nitrating Acid (<15%H2SO4)	D
Nitrating Acid (>15%H2SO4)	D
Nitrating Acid (<1% Acid)	D
Nitrating Acid (<15%HNO3)	D
Nitric Acid (5-10%)	A1
Nitric Acid (20%)	A1
Nitric Acid (50%)	B1
Nitric Acid (Concentrated)	D
Nitrous Acid	A
Nitrobenzene	D
OILS	
Aniline	D
ASTM #1 (100 °C)	-
ASTM #2 (100 °C)	-
ASTM #3 (100 °C)	-
Castor	A
Cod Liver	A1
Corn	B
Cotton Seed	B2
Creosote	C
Diesel Fuel (20, 30, 40, 50)	A2
Fuel (1, 2, 3, 5A, 5B, 6)	A2
Hydraulic (see Hydraulic Oil)	
Linseed	A2
Mineral	A1
Olive	C
Peanut	A1
Rosin	C1
Silicone	A
Soybean	A1
Turbine	A1
Oleic Acid	C2
Oleum 25%	D
Oleum 100%	D
Oxalic Acid (cold)	A1
Paraffin	A1
Pentane	A
Perchloroethylene	C1
Petrolatum	B
Phenol (10%)	C1
Phenol (Carbolic Acid)	C1
Phosphoric Acid (<40%)	B2
Phosphoric Acid (>40%)	B2
Phosphoric Acid (crude)	B2
Phosphoric Acid Anhydride	-
Phosphoric Acid (molten)	D
Photographic Developer	A
Phthalic Anhydride	D
Picric Acid	D
PLATING SOLUTIONS	
Antimony Plating (130°F)	A
Arsenic Plating (110°F)	A
Brass Plating:	
Regular Brass Bath (100°F)	A
High Speed Brass (Bath 110°F)	A
Bronze Plating:	
Cu-Cd Bronze (Bath R.T.)	A
Cu-Sn Bronze (Bath 160°F)	D
Cu-Zn Bronze (Bath 100°F)	A
Cadmium Plating:	
Cyanide (Bath 90°F)	A
Fluoborate (Bath 100°F)	A

Chromium Plating:	
Chromic-Sulfuric (Bath 130°F)	A
Fluosilicate (Bath 95°F)	A
Fluoride (Bath 130°F)	A
Black Chrome (Bath 115°F)	A
Barrel Chrome (Bath 95°F)	A
Copper Plating (Cyanide):	
Copper Strike (Bath 120°F)	A
Rochelle Salt (Bath 150°F)	D
High Speed (Bath 180°F)	D
Copper Plating (Acid):	
Copper Sulfate (Bath R.T.)	A
Copper Fluoborate (Bath 120°F)	A
Copper Plating (Misc):	
Copper Pyrophosphate	A
Copper (Electroless)	A
Gold Plating:	
Cyanide (150°F)	D
Neutral (75°F)	A
Acid (75°F)	A
Indium Sulfamate (Plating R.T.)	A
Iron Plating:	
Ferrous Chloride (Bath 190°F)	D
Ferrous Sulfate (Bath 150°F)	D
Ferrous Am Sulfate (Bath 150°F)	D
Sulfate-Chloride (Bath 160°F)	D
Fluoborate (Bath 145°F)	D
Sulfamate (140°F)	A
Lead Fluoborate Plating	A
Nickel Plating:	
Watts Type (115-160°F)	D
High Chloride (130-160°F)	D
Fluoborate (100-170°F)	A
Sulfamate (100-140°F)	A
Electroless (200°F)	D
Rhodium Plating (120°F)	A
Silver Plating (80-120°F)	A
Tin-Fluoborate Plating (100°F)	A
Tin-Lead Plating (100°F)	A
Zinc Plating:	
Acid Chloride (140°F)	A
Acid Sulfate (Bath 150°F)	D
Acid Fluoborate (Bath R.T.)	A
Alkaline Cyanide (Bath R.T.)	A
Potash	C
Potassium Bicarbonate	A
Potassium Bromide	A
Potassium Carbonate	A
Potassium Chlorate	A
Potassium Chloride	A
Potassium Chromate	A
Potassium Cyanide Solutions	A
Potassium Dichromate	A
Potassium Ferrocyanide	B
Potassium Hydroxide (10%)	-
Potassium Hydroxide (Caustic Potash)	A1
Potassium Nitrate	A
Potassium Permanganate	A1
Potassium Sulfate	A2
Potassium Sulfide	A2
Power Steering (125 °C)	-
Propane (liquified)	A1
Propanol	-
Propylene Glycol	C1
Pyridine	D
Pyrogallic Acid	A
Rosins	C1
Rust Inhibitors	-
Sea Water	A2
Shellac (Bleached)	-
Shellac (Orange)	-
Silicone	A
Silver Bromide	-
Silver Nitrate	A1
Soap Solutions	A
Soda Ash (see Sodium Carbonate)	
Sodium Acetate	B1
Sodium Aluminate	-
Sodium Bicarbonate	A2
Sodium Bisulfate	A2
Sodium Bisulfite	A2
Sodium Borate	A2
Sodium Carbonate	A2
Sodium Chlorate	A1
Sodium Chloride	A2
Sodium Chloride (15%)	-
Sodium Chromate	-
Sodium Cyanide	A2
Sodium Fluoride	A2
Sodium Hydrosulfite	C
Sodium Hydroxide (20%)	A
Sodium Hydroxide (50%)	A
Sodium Hydroxide (80%)	A
Sodium Hypochlorite (<20%)	A
Sodium Hypochlorite (-100%)	C2
Sodium Hyposulfate	-
Sodium Metaphosphate	B2
Sodium Metasilicate	A
Sodium Nitrate	A2
Sodium Perborate	A2
Sodium Peroxide	B2
Sodium Polyphosphate	A1
Sodium Silicate	A2
Sodium Sulfate	A2
Sodium Sulfide	A2
Sodium Sulfite	A2
Sodium Tetraborate	A2
Sodium Thiosulfate (hypo)	A2
Sorghum	-
Stannic Chloride	A2
Stannic Fluoborate	-
Stannous Chloride	A1
Starch	A
Stearic Acid	B2
Stoddard Solvent	C1
Styrene	D
Sugar (Liquids)	-
Sulfate (Liquors)	B
Sulfur Chloride	C1
Sulfur Dioxide	A1
Sulfur Dioxide (Dry)	A2
Sulfur Trioxide (Dry)	A1
Sulfuric Acid (<10%)	A1
Sulfuric Acid (10-75%)	A1
Sulfuric Acid (75-100%)	D
Sulfuric Acid (98%)	-
Sulfuric Acid (Hot Conc)	D
Sulfuric Acid (Cold Conc)	D
Sulfurous Acid	A2
Sulfuryl Chloride	-
Tannic Acid	A1
Tartaric Acid	A1
Tetrachloroethane	C
Tetrachloroethylene	D
Tetrahydr°Furan	D
Toluene (Toluol)	D
Trichloroethane	C
Trichloroethylene	D
Trichoropropane	-
Tricresylphosphate	D
Triethylamine	A
Turpentine	B1
Varnish	D
Water, Distilled	A2
Water, Fresh	A2
Water, Salt	A2
Water (100 oC)	-
Water (Chlorine 4ppm)	-
Water (Chloramines 4ppm)	-
Whey	-
White Liquor (Pulp Mill)	A2
White Water (Paper Mill)	A
Xylene	D
Zinc Chloride	A2
Zinc Choride (10%)	-
Zinc Hydrosulfite	-
Zinc Hydroxide (10%)	
Zinc Sulfate	A2

Caractéristiques chimiques des revêtements XCR

Note : Le tableau ci-dessous ne permet pas de prédire l'effet sur l'enveloppe des mélanges chimiques complexes.

Chemical	Formula	Concentration	Max. Temp. (°C)
ACIDS			
Hydrochloric	HCl	37%	135
Hydrofluoric	HF	40%	120
Nitric	HNO_3	11 - 70%	65
Phosphoric	H_3PO_4	<85%	135
Sulphuric	H_2SO_4	93 - 98%	65
BASES			
Ammonium hydroxide	$NH_4(OH)$	100%	135
Calcium hydroxide	$CA(OH)_2$	100%	120
Sodium hydroxide	NaOH	<10%-stabilized at pH13.5	25
Sodium hypochlorite	NaClO	5%	110
HYDROCARBONS			
n-Hexane	$CH_3(CH_2)_4CH_3$	100%	135
Toluene	$C_6H_5CH_3$	100%	80
ALCOHOLS AND ETHERS			
Methyl alcohol		100%	135
Ethanol	CH_3CH_2OH	100%	110
ORGANIC ACIDS, ESTERS AND KETONES			
Acetic acid	CH_3COOH	100 % 50 %	50 95
Acetone	CH_3COCH_3	10%	40
Formic acid	HCO_2H	100%	120
Ethyl formate	$C_3H_6O_2$	100%	25
SOLVENTS			
Benzene	C_6H_6	100%	75
Methylene chloride	CH_2Cl_2	100%	40
Ethylene dichloride	$C_2H_4Cl_2$	100%	120
HALOGENATED SOLVENTS			
Chlorobenzene	C_6H_5Cl	100%	75
Chloroform	$CHCl_3$	100%	50
AMINES AND NITRILES			
Acetonitrile	CH_3CN	100%	40
Aniline	$C_6H_5NH_2$	100%	40
Dimethyl amine	$(CH_3)_2NH$	100%	Not resistant
PEROXIDES			
Hydrogen peroxide	H_2O_2	30%	95
AUTOMOTIVE FLUIDS			
Crude Oil		100%	135
Motor Oil		100%	135
Gasoline		100%	135
Diesel Fuels		100%	135
Mineral Oil		100%	135

Les informations données dans cette fiche, le sont à titre indicatif uniquement et ne constituent pas des garanties de performance ou des recommandations d'emploi.

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