

# CHEMICAL RESISTANT GUIDE

**ABOUT THIS CHEMICAL GUIDE**

This guide is intended to be used as a guide in selecting the proper CornerStone coating for a particular chemical environment. Many factors must be considered when choosing the correct product for an application including:

Chemical or combination of:

- Type of Substrate and its Condition
- Operating Temperature
- Temperature Fluctuations
- Mechanical Abuse
- Degree of Protection required

CornerStone recommends testing the product in the actual conditions that the product will be exposed to.

**QUICK REFERENCE BY CHEMICAL FAMILY**

CHEMICAL GROUP	CS 2025	CS 2025 ESD	CS 2160	CS 2300	CS 2600	CS 5000
Acids, (inorganic), Dilute	R	R	R	R	R	R
Acids, (inorganic), Strong	N	N	N	N	N	C
Acids, (organic), Strong	C	C	C	C	N	C
Acids, (organic), Dilute	R	R	R	R	R	R
Alcohols	R	R	R	R	R	R
Aldehyde	C	C	N	C	C	C
Alkalis, Dilute	R	R	R	R	R	R
Alkalis, Strong	R	R	R	C	C	R
Esters	N	N	N	C	C	C
Fluoride Salts	N	N	N	N	N	N
Food Stuffs	R	R	R	R	R	R
Halogen, Solutions	C	C	N	C	C	C
Ketones	R	R	C	C	C	C
Petroleum Products	R	R	R	R	R	R
Salts	R	R	R	R	R	R
Solvents, Aliphatic	R	R	R	R	R	R
Solvents, Aromatic	C	C	C	R	N	C
Solvents, Halogenated	N	N	N	C	C	C

**LEGEND**

- R = Recommended for splash and spill conditions.
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- C = Product is suitable for occasional and intermittent contact.
- NS = Non silica.
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SUBSTANCE	CS 2025	CS 2025 ESD	CS 2160	CS 2300	CS 2600	CS 5000
Acetaldehyde	N	N	N	N	C	R
Acetic Acid 10%	R	R	R	R	R	R
Acetic Acid 25%	C	C	C	C	C	C
Acetic Acid 50%	N	N	N	N	N	C
Acetic Acid Glacial	N	N	N	N	N	N
Acetic Anhydride	N	N	N	N	N	N
Acetone	C	C	C	C	C	C
Acrylic Acid	N	N	N	N	N	N
Acrylonitrile	N	N	N	N	N	N
Adipic Acid	C	C	C	R	C	R
Allyl Alcohol	N	N	N	N	N	C
Allyl Chloride	N	N	N	N	N	R
Aluminum Chloride	R	R	R	R	R	R
Aluminum Fluoride	N	N	N	N	N	N
Aluminum Hydroxide	R	R	R	R	R	R
Aluminum Nitrate	R	R	R	R	R	R
Aluminum Sulfate	R	R	R	R	R	R
Ammonia Gas	N	N	N	R	C	R
Ammonium Bisulfite	R	R	R	R	R	R
Ammonium Chloride	C	C	C	R	R	R
Ammonium Fluoride	N	N	N	N	N	N
Ammonium Hydroxide	R	R	R	R	R	R
Ammonium Lauryl	R	R	R	R	R	R
Ammonium Nitrate	R	R	R	R	R	R
Ammonium Persulfate	R	R	R	R	R	R
Ammonium Sulfate	R	R	R	R	R	R
Ammonium Sulfide	R	R	R	R	R	R
Ammonium Sulfite	R	R	R	R	R	R
Amyl Alcohol	R	R	R	R	C	R
Aniline	N	N	N	N	N	C
Aniline Hydrochloride	N	N	N	N	N	C
Antimony Trichloride	C	C	C	R	R	R
Arsenic Acid	C	C	C	R	C	C
Barium Chloride	R	R	R	R	R	R
Barium Hydroxide	R	R	R	R	R	R
Barium Sulfate	R	R	R	R	R	R
Barium Sulfide	R	R	R	R	R	R
Beer	R	R	R	R	R	R

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Benzaldehyde	N	N	N	N	C	C
Benzene	N	N	N	C	C	R
Benzoic Acid	R	R	R	R	R	R
Benzyl Alcohol	C	C	C	R	C	R
Benzyl Chloride	N	N	N	N	N	R
Bleach	C	C	C	C	R	R
Brine	R	R	R	R	R	R
Bromine Gas	N	N	N	N	N	R
Bromine liquid	N	N	N	N	N	N
Butanol	C	C	C	C	C	R
Butyl Acetate	C	C	C	R	C	R
Butyl Acrylate	N	N	N	N	N	C
Butyl Cellosolve	C	C	C	C	C	C
Butyric Acid	C	C	C	C	N	C
Cadmium Chloride	R	R	R	C	R	R
Calcium Bisulfite	R	R	R	R	R	R
Calcium Chloride	R	R	R	R	R	R
Calcium Hydroxide	R	R	R	C	R	R
Calcium Hydrochlorite	C	C	C	R	C	C
Calcium Nitrate	R	R	R	R	R	R
Calcium Sulfate	R	R	R	R	R	R
Calcium Sulfite	R	R	R	R	R	R
Caprylic Acid	C	C	C	C	C	C
Carbon Disulfide	N	N	N	N	N	N
Carbon Tetrachloride	C	C	C	R	R	R
Castor Oil	R	R	R	R	R	R
Chlorine Dioxide	N	N	N	N	N	C
Chlorine Gas	N	N	N	N	N	R
Chloride Water (satud)	C	C	C	C	C	R
Chloroacetic Acid	N	N	N	N	N	N
Chlorobenzene	N	N	N	C	N	N
Chloroform	C	C	C	R	N	C
Chromic Acid 10%	C	C	C	C	C	C
Chromic Acid 30%	N	N	N	N	N	N
Cirtic Acid	C	C	C	R	C	R

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Copper Chloride	R	R	R	R	R	R
Copper Cyanide	R	R	R	R	R	R
Copper Nitrate	R	R	R	R	R	R
Copper Sulfate	R	R	R	R	R	R
Corn Oil	R	R	R	R	R	R
Cottonseed Oil	R	R	R	R	R	R
Cresylic Acid	N	N	N	C	N	C
Cumene	N	N	N	N	C	C
Cyclohexane	N	N	N	C	N	R
Decanol	C	C	C	R	C	R
Dibutyl Phthalate	C	C	C	R	R	R
Dichlorobenzene	N	N	N	C	N	C
Diesel Fuel	R	R	R	R	R	R
Diethylbenzene	N	N	N	N	N	C
Diethyl Ketone	C	C	C	R	N	C
Dimethyl Formamide	N	N	N	C	N	C
Divinylbenzene	N	N	N	N	N	C
Epichlorohydrin	N	N	N	N	N	C
Ethyl Acetate	C	C	C	C	C	R
Ethyl Acrylate	N	N	N	N	N	C
Ethyl Alcohol	R	R	R	R	R	R
Ethyl Bromide	N	N	N	N	N	C
Ethyl Chloride	N	N	N	N	N	C
Ethyl Chloroformate	N	N	N	N	N	C
Ethylene Dichloride	N	N	N	N	N	C
Ethylene Glycol	R	R	R	R	R	R
Ethylene Oxide	C	C	C	N	N	C
Ethyl Ether	C	C	C	N	N	C
Ethyl Sulfate	C	C	C	N	N	C
Ethyl Benzene	C	C	C	C	C	C
Ferric Chloride	C	C	C	R	R	R
Ferric Nitrate	C	C	C	R	R	R
Ferrous Sulfate	C	C	C	R	C	R
Fluosilic Acid 15%	N	N	N	N	N	N
Fluoboric Acid	N	N	N	N	N	N
Fluosilic Acid 10%	C	C	C	N	N	C

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Formaldehyde	R	R	R	R	N	R
Formic Acid 10%	R	R	R	C	C	R
Formic Acid 98%	N	N	N	N	N	N
Furfuryl Alcohol	N	N	N	C	C	R
Gasoline, Leaded	R	R	R	R	R	R
Glucose	R	R	R	R	R	R
Glycerine	R	R	R	R	R	R
Heptane	N	N	N	R	C	C
Hexane	N	N	N	C	N	C
HCl 10%	R	R	R	R	R	R
HCl 20%	R	R	R	C	C	C
HCl 37%	C	C	C	S	NS	NS
Hydrofluoric Acid 10%	C	C	C	N	N	C
Hydrofluoric Acid 48%	N	N	N	N	N	N
Hydrazine 15%	N	N	N	N	N	N
Hydroiodic Acid 40%	R	R	R	C	C	R
Hydrobromic Acid 30%	C	C	C	C	C	C
Hydrobromic Acid 48%	N	N	N	N	N	C
Hydrogen Peroxide	R	R	R	R	R	R
Hydrogen Sulfide, Gas	R	R	R	C	R	R
Iodine crystals	RS	RS	RS	RS	RS	R
Isopropyl Alcohol	R	R	R	R	R	R
Jet Fuel	R	R	R	R	R	R
Kerosene	R	R	R	R	R	R
Lactic Acid	C	C	C	S	C	R
Lead Acetate	R	R	R	R	R	R
Levulinic Acid	R	R	R	R	R	R

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Linseed Oil	R	R	R	R	R	R
Liquor, Black	R	R	R	R	R	R
Liquor, Green	R	R	R	R	C	R
Liquor, White	R	R	R	R	C	R
Lithium Bromide	R	R	R	R	R	C
Lithium Chloride	R	R	R	R	R	C
Lithium Hydroxide	R	R	R	R	R	C
Magnesium Sulfate	R	R	R	R	R	R
Maleic Acid	R	R	R	R	R	R
Mercuric Chloride	R	R	R	R	R	R
Mercurous Chloride	R	R	R	R	R	R
Mercury	R	R	R	R	R	R
Methanol 5%	R	R	R	R	R	R
Methylene Chloride	N	N	N	N	N	N
Methyl Ethyl Ketone	N	N	N	C	N	C
Milk	R	R	R	R	R	R
Mineral Spirits	R	R	R	R	R	R
Monochloroacetic Acid	N	N	N	C	N	C
Muriatic Acid	C	C	C	R	C	R
Naphtha	C	C	C	R	R	R
Naphthalene	C	C	C	R	C	R
Nitric Acid 5%	R	R	R	C	R	R
Nitric Acid 10%	C	C	C	C	C	R
Nitric Acid 30%	N	N	N	N	C	C
Nitric Acid 40%	N	N	N	N	N	C
Nitrobenzene	N	N	N	N	N	C
Oleic Acid	R	R	R	R	R	R
Oleum	N	N	N	N	N	C

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Olive Oils	R	R	R	R	R	R
Oxalic Acid	R	R	R	R	R	R
Perchloric Acid 10%	C	C	C	C	C	C
Perchloroethylene	N	N	N	C	C	R
Phenol 5%	C	C	C	R	C	R
Phenol 85%	N	N	N	CS	CS	CS
Phosphoric Acid 85%	C	C	C	N	C	C
Phosphoric Acid 100%	N	N	N	N	N	C
Phosphorous Acid	C	C	C	C	C	C
Phthalic Acid	R	R	R	R	R	R
Picric Acid 10%	R	R	R	C	R	R
Phtaleic Acid	R	R	R	R	C	R
Potassium Bicarbonate	R	R	R	R	R	R
Potassium Carbonate	R	R	R	R	R	R
Potassium Chloride	R	R	R	R	R	R
Potassium Dichromate	C	C	C	C	N	R
Potassium Hydroxide 10%	R	R	R	R	R	R
Potassium Hydroxide 45%	R	R	R	C	C	R
Potassium Nitrate	R	R	R	R	R	R
Potassium Permanganate	R	R	R	R	R	R
Potassium Persulfate	R	R	R	R	R	R
Potassium Sulfate	R	R	R	R	R	R
Propionic Acid 5%	R	R	R	R	R	R
Propionic Acid 100%	N	N	N	S	C	C
Propylene Glycol	R	R	R	R	R	R
Pyridine	N	N	N	C	N	C
Salicylic Acid	R	R	R	R	R	R
Salt Brine	R	R	R	R	R	R
Sea Water	R	R	R	R	R	R
Selenious Acid	N	N	N	C	C	R
Silver Nitrate	R	R	R	R	R	R
Skydrol	R	R	R	R	R	R
Sodium Acetate	R	R	R	R	R	R
Sodium Bisulfate	R	R	R	R	R	R

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Sodium Carbonate	R	R	R	R	R	R
Sodium Chlorate	R	R	R	R	R	R
Sodium Chloride	R	R	R	R	R	R
Sodium Chlorite	R	R	R	R	R	R
Sodium Cyanide	C	C	C	C	R	R
Sodium Dichromate	C	C	C	C	N	R
Sodium Fluoride	N	N	N	N	N	N
Sodium Hydrosulfite	C	C	C	R	N	R
Sodium Hydroxide 10%	R	R	R	R	R	R
Sodium Hydroxide 25%	R	R	R	R	R	R
Sodium Hydroxide 50%	R	R	R	C	C	R
Sodium Hypochlorite 5%	R	R	R	C	R	R
Sodium Hypochlorite 10%	C	C	C	C	R	R
Sodium Hypochlorite 18%	C	C	C	C	C	R
Sodium Lauryl Sulfate	R	R	R	R	R	R
Sodium Oxalate	R	R	R	R	R	R
Sodium Phosphate	R	R	R	R	R	R
Sodium Phosphate (Tri)	R	R	R	R	R	R
Sodium Sulfate	R	R	R	R	R	R
Sodium Sulfide	R	R	R	R	R	R
Sodium Sulfite	R	R	R	R	R	R
Sodium Tartrate	R	R	R	R	R	R
Sodium Thiosulfate	R	R	R	R	R	R
Sorbitol Solutions	R	R	R	R	R	R
Soybean Oil	R	R	R	R	R	R
Stannous Chloride	C	C	C	R	R	R
Stearic Acid	R	R	R	R	R	R
Styrene	N	N	N	N	N	N
Sugar/Sucrose	R	R	R	R	R	R
Sulfite Liquor (Pulp)	R	R	R	R	R	R
Sulfur Dioxide	C	C	C	R	S	R
Sulfuric Acid 10%	R	R	R	C	R	R
Sulfuric Acid 25%	C	C	C	C	C	R
Sulfuric Acid 50%	N	N	N	N	N	CS
Sulfuric Acid 75%	N	N	N	N	N	CS
Sulfuric Acid 98%	N	N	N	N	N	CS

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Sulfurous Acid 30%	N	N	N	CS	N	CS
Sulfur Trioxide(Dry)	R	R	R	C	R	C
Sulfur Dioxide (Wet)	C	C	C	S	R	C
Tall Oil	C	C	C	R	R	R
Tannic Acid	C	C	C	R	R	R
Tartaric Acid	R	R	R	R	R	R
Tetrachloroethylene	N	N	N	N	N	C
Tobias Acid	R	R	R	R	R	R
Toluene	C	C	C	R	C	R
Trichloroacetic Acid	N	N	N	N	N	N
Trichloroethylene	C	C	C	R	C	C
Turpentine	R	R	R	R	R	R
Urea	C	C	C	R	R	R
Water, Distilled	R	R	R	R	R	R
Wine	R	R	R	R	R	R
Xylene	C	C	C	C	C	R
Zinc Chloride	R	R	R	R	R	R
Zinc Sulfate	R	R	R	R	R	R

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