

# CHEMICAL RESISTANCE GUIDE FOR CCS™ EPOXY COATINGS AND FLOORING BINDER

The purpose of this guide is to aid in determining the value of CCS™ products when exposed to potentially damaging effects of chemical environments at normal ambient temperature.

		Primary Uses / Properties
<b>General Purpose Epoxy Healer Sealer Hi Temp FC Coat</b>	<b>I</b>	Gray coating for concrete in facilities requiring good resistance to mild acids and caustic (alkalis, bases), automotive and other chemicals.
<b>High Chemical Resistance HiTemp</b>	<b>II</b>	Gray or red concrete coating for sewage treatment and fuel storage tanks, waste water and sewer pipe, meat processing, plating and other acid handling facilities.
<b>Concentrated Sulfuric Acid Resistance</b>	<b>III</b>	Gray or red concrete coating resisting concentrated sulfuric and other mineral and organic acids.
<b>Utility Utility LV AC-1 - Asphalt &amp; Concrete</b>	<b>IV</b>	General purpose floor /loading dock coatings with excellent water resistance and good tolerance for automotive chemicals. Low cost.
<b>Binder Flooring LoMod Binder</b>	<b>V</b>	Broadcast, slurry and trowel-down flooring applications.

## ACIDS

Chemical	CCS Coating/Binder				
	I	II	III	IV	V
Acetic-5%	OS	E	E	OS	G
Acetic-10%	OS	E	E	OS	G
Acetic-Glacial	NR	OS	OS	NR	NR
Benzoic-sat. (3%)	E	E	E	OS	E
Butyric-10 %	G	E	E	OS	E
Chromic-10 %	OS	G	G	NR	OS
Chromic-20 %	NR	NR	OS	NR	NR
Citric-50 %	E	E	E	OS	E
Cresylic	OS	G	G	OS	G
Diglycolic	G	E	E	OS	E
Fatty	G	E	E	G	E
Fluoboric	OS	OS	OS	OS	OS
Formic-10 %	OS	G	G	NR	OS
Heptanoic	G	E	E	OS	E
Hydrochloric-15 %	G	E	E	OS	OS
Hydrochloric-37 %	OS	OS	G	NR	OS
Hydrofluoric-5 %	OS	G	G	NR	OS
Hydrofluoric-10 %	NR	OS	OS	NR	NR
Hydrochlorous-5 %	OS	G	G	NR	OS

Chemical	CCS Coating/Binder				
	I	II	III	IV	V
Lactic-10 %	G	E	E	NR	G
Lactic-50 %	OS	E	E	NR	OS
Maleic-30 %	OS	E	E	NR	G
Malic-40 %	OS	E	E	NR	G
Nitric-10 %	OS	E	E	NR	G
Nitric-25 %	OS	OS	G	NR	G
Oleic	G	E	E	NR	G
Oxalic-sat.	G	E	E	OS	G
Perchloric-35 %	OS	OS	OS	NR	OS
Phosphoric-50 %	OS	G	G	NR	G
Phthalic	G	G	G	NR	G
Phenol-5 %	G	E	E	OS	E
Stearic	G	E	E	OS	E
Succinic-sat.	G	E	E	OS	E
Sulfuric-25 %	G	E	E	OS	E
Sulfuric-98 %	NR	NR	E	NR	NR
Tannic-sat.	G	E	E	OS	G
Tartaric-sat.	G	E	E	NR	G

## ALKALIS AND SALTS

All products are rated good to excellent when exposed to most aqueous alkalis (caustic, bases) and salts

## SOLVENTS AND OTHER CHEMICALS

Chemical	CCS Coating/Binder				
	I	II	III	IV	V
Acetone	OS	OS	OS	OS	OS
Alcohol (methyl)	G	OS	OS	OS	OS
Alcohol (others)	G	G	G	OS	G
Benzene	G	G	G	OS	OS
Beer	E	E	E	G	E
Bromine	G	G	G	OS	OS
Brake Fluid-Oil Base	E	E	E	G	G
Brake Fluid-H. Duty	E	OS	OS	NR	OS
Butyl Acetate	OS	OS	OS	NR	OS
Carbon Tetrachloride	G	E	E	NR	OS
Castor Oil	E	E	E	G	E
Coke	E	E	E	OS	E
Corn Oil	E	E	E	G	E
Cyclohexane	G	OS	OS	NR	OS
Diacetone Alcohol	OS	OS	OS	NR	OS
Diesel Fuel	E	E	E	G	E
Ethylene Glycol	E	E	E	E	E
Ether	G	G	G	NR	OS
Formaldehyde	G	E	E	NR	OS
Fuel Oil	E	E	E	G	E
Gasoline	E	E	E	OS	G
Gasohol	G	OS	OS	NR	NR
G. P Floor Cleaners	E	E	E	G	E
Germicidal Solutions	E	E	E	G	E
Glycerine	E	E	E	G	E

Chemical	CCS Coating/Binder				
	I	II	III	IV	V
Hexane	G	E	E	OS	E
Hydr. Peroxide-10%	G	E	E	NR	E
JP5 Jet Fuel	E	E	E	G	E
Juices-Fruit	E	E	E	OS	E
Juices-Vegetable	E	E	E	OS	E
Lard	E	E	E	G	E
Linseed Oil	E	E	E	G	E
Methyl Ethyl Ketone	OS	OS	OS	OS	OS
Methylene Chloride	NR	NR	NR	NR	NR
Milk	E	E	E	G	E
Mineral Spirits	E	E	E	G	E
Naptha	E	E	E	OS	E
Oils-Cutting	E	E	E	G	E
Oils-Mineral	E	E	E	G	E
Oils-Vegetable	E	E	E	G	E
Perchlor	G	OS	OS	OS	OS
Skydol	E	G	G	NR	OS
Sugar	E	E	E	E	E
Toluene	G	NR	OS	NR	OS
Trichlor	E	E	E	OS	E
Turpentine	G	G	G	OS	G
Urea	G	E	E	OS	E
Vinegar-Household	G	E	E	OS	G
Water	E	E	E	E	E
Xylene	G	OS	OS	NR	OS


*The rating code used provides four categories of product performance:*

- E**    **Excellent**
- G**    **Good, not suitable for long term exposure**
- OS**   **Suitable for occasional spill followed by immediate clean-up**
- NR**   **Not Recommended**

CCS is a trade name of **ChemCo Systems, Inc.**

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