

CHEMICAL RESISTANCE GUIDE FOR CCS™ COATINGS AND FLOORING BINDER

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

CCS™ Coating		Primary Uses / Properties
General Purpose ¹	I ¹	Gray coating for concrete in facilities requiring good resistance to mild acids and caustic (alkalis, bases), automotive and other chemicals.
High Chemical Resistance	II	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.
Concentrated Sulfuric Acid Resistance	III	Gray or red concrete coating resisting concentrated sulfuric and other mineral and organic acids.
Utility and Utility LV	IV	General purpose floor /loading dock coatings with excellent water resistance and good tolerance for automotive chemicals. Low cost.
CCS™ Binder Flooring	V	Broadcast, slurry and trowel-down flooring applications.

¹ This category also applies to **Epoxy, Healer/Sealer**

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 expose 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
Naphtha	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
Skydrol	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 suited for long term exposure
- OS** Suitable for occasional spill followed by immediate clean-up
- NR** Not Recommended

CCS is a tradename of ChemCo Systems, Inc.

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