



ChemCo Systems, Inc.

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Chemical Resistance Guide for ChemCo Systems Coatings and Flooring Binder

KemkoCoating		Primary Uses / Properties
070, 186	I	Gray coating for concrete in facilities requiring good resistance to mild acids and caustic (alkalis, bases), automotive and other chemicals.
009	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.
161	III	Gray or red concrete coating resisting concentrated sulfuric and other mineral and organic acids.
064, 181	IV	General purpose floor /loading dock coating with excellent water resistance and good tolerance for automotive chemicals. Low cost.
082 Binder	V	Broadcast, slurry and trowel-down flooring applications.

Acids

Chemical	KEMKO 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	KEMKO 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	KEMKO Coating/Binder					Chemical	KEMKO Coating/Binder				
	I	II	III	IV	V		I	II	III	IV	V
Acetone	OS	OS	OS	OS	OS	Hexane	G	E	E	OS	E
Alcohol (methyl)	G	OS	OS	OS	OS	Hydr. Peroxide-10 %	G	E	E	NR	E
Alcohol (others)	G	G	G	OS	G	JP5 Jet Fuel	E	E	E	G	E
Benzene	G	G	G	OS	OS	Juices-Fruit	E	E	E	OS	E
Beer	E	E	E	G	E	Juices-Vegetable	E	E	E	OS	E
Bromine	G	G	G	OS	OS	Lard	E	E	E	G	E
Brake Fluid-Oil Base	E	E	E	G	G	Linseed Oil	E	E	E	G	E
Brake Fluid-H. Duty	E	OS	OS	NR	OS	Methyl Ethyl Ketone	OS	OS	OS	OS	OS
Butyl Acetate	OS	OS	OS	NR	OS	Methylene Chloride	NR	NR	NR	NR	NR
Carbon Tetrachloride	G	E	E	NR	OS	Milk	E	E	E	G	E
Castor Oil	E	E	E	G	E	Mineral Spirits	E	E	E	G	E
Coke	E	E	E	OS	E	Naphtha	E	E	E	OS	E
Corn Oil	E	E	E	G	E	Oils-Cutting	E	E	E	G	E
Cyclohexane	G	OS	OS	NR	OS	Oils-Mineral	E	E	E	G	E
Diacetone Alcohol	OS	OS	OS	NR	OS	Oils-Vegetable	E	E	E	G	E
Diesel Fuel	E	E	E	G	E	Perchlor	G	OS	OS	OS	OS
Ethylene Glycol	E	E	E	E	E	Skydrol	E	G	G	NR	OS
Ether	G	G	G	NR	OS	Sugar	E	E	E	E	E
Formaldehyde	G	E	E	NR	OS	Toluene	G	NR	OS	NR	OS
Fuel Oil	E	E	E	G	E	Trichlor	E	E	E	OS	E
Gasoline	E	E	E	OS	G	Turpentine	G	G	G	OS	G
Gasohol	G	OS	OS	NR	NR	Urea	G	E	E	OS	E
G. P Floor Cleaners	E	E	E	G	E	Vinagar-Household	G	E	E	OS	G
Germicidal Solutions	E	E	E	G	E	Water	E	E	E	E	E
Glycerine	E	E	E	G	E	Xylene	G	OS	OS	NR	OS

The rating code used provides four categories of product performance:

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

Solvents and other Chemicals

Chemical	KEMKO 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	KEMKO 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

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OS - Suitable for occasional spill
followed by immediate clean-up

G - Good, not suited for long term exposure

NR - Not Recommended