

CHEMICAL RESISTANCE GUIDE

STONRES

STONHARD

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The purpose of this guide is to aid in determining the potential value of Stonres when exposed to the damaging effects of corrosive chemical spillages.

The test procedure used was to totally immerse cured samples of Stonres in the chemicals listed for a period of 90 days at normal room temperatures (72°F/22°C). (This is an exceptionally severe test, since most floors subject to chemical spillages such as these are “flushed down” periodically with water as part of the normal floor maintenance operation.)

The resultant resistance of Stonres to the various chemicals is rated using the symbols listed in the Rating Code. (It is recommended that normal good housekeeping procedures be used, including a daily flushing with clean water.)

RATING CODE

E - Excellent
 G - Good
 NR - Not Recommended
 OS - Suitable for use where “occasional spillages” occur, when followed by immediate water flushing

The data contained here is based on laboratory tests performed under carefully controlled conditions. No warranty can be expressed or implied regarding the accuracy of this information as it will apply to actual plant operational use. Plant operations vary widely and the individual results obtained are affected by the specific conditions encountered, which are beyond our control.

Acids

Chemical	RTZ
Acetic – 5%	E
Acetic – 20%	OS
Acetic Glacial	NR
Benzoic – Sat. 3%	E
Boric – Sat. 30%	E
Butyric – 10%	OS
Chromic – 10%	OS
Chromic – 20%	OS
Citric – 50%	G
Cresylic	OS
Diglycolic	G
Fatty	G
Fluoboric	G
Formic – up to 10%	OS
Formic – over 10%	NR
Heptanoic	OS
Hydrochloric – 15%	G
Hydrochloric – 37%	NR
Hydrofluoric – 10%	G
Hydrofluoric – 15%	OS
Hypochlorous – 5%	E
Lactic – up to 20%	OS
Lactic – over 25%	OS

Chemical	RTZ
Maleic – 35%	G
Maleic – 60%	OS
Monochloroacetic – 5%	OS
Monochloroacetic – 10%	OS
Nitric – 10%	OS
Nitric – 20%	OS
Nitric – 30%	NR
Nitric – over 40%	NR
Oleic	G
Oxalic – Sat. 12.5%	E
Perchloric – 35%	G
Phosphoric – up to 50%	OS
Phosphoric – 70%	NR
Picric – Sat. 1.26%	G
Phthalic	G
Succinic – Sat. 7.14%	E
Sulfuric – 20%	G
Sulfuric – 50%	G
Sulfuric – 70%	NR
Sulfuric – 98%	NR
Tannic – Sat. 2.77%	G
Tartanic	E

Alkalies and Salts

Chemical	RTZ
Aluminum Chloride – 50%	E
Ammonium Chloride – 50%	E
Ammonium Hydroxide – up to 20%	E
Ammonium Hydroxide – 40%	G
Ammonium Nitrate – Sat. 66.67%	E
Ammonium Persulfate	E
Ammonium Sulfate – Sat. 43.4%	E
Calcium Chloride – 50%	E
Calcium Hydroxide – Sat. 0.17%	E
Calcium Hypochlorite – up to 15%	G
Copper Fluoroborate	E
Ferric Chloride	G
Ferrous Sulfate	G
Potassium Hydroxide – up to 40%	E

Chemical	RTZ
Sodium Benzoate – Sat. 35.7%	E
Sodium Bicarbonate – Sat. 9.09%	E
Sodium Bisulfate – Sat. 33.3%	E
Sodium Bisulfite – Sat. 22.2%	E
Sodium Carbonate (Soda Ash) - Sat. 22.2 %	E
Sodium Chloride (Salt)	E
Sodium Glutamate	E
Sodium Hydroxide – up to 50%	G
Sodium Hypochlorite – up to 10%	G
Sodium Propionate	E
Sodium Sulfate – Sat. 21.7%	E
Sodium Sulfide – Sat. 15.68%	E
Trisodium Phosphate	E
Zinc Nitrate	G

Solvents and Other Chemicals

Chemical	RTZ
Acetone	NR
Acrylonitrile	NR
Aniline	NR
Alcohol (Methyl)	OS
Alcohol (Ethyl, Propyl, Isopropyl, Butyl)	G
Amyl Acetate	G
Beer	G
Benzene	OS
Butyl Acetate	G
Butyl Lactate	G
Bromine	NR
Carbon Disulfide	NR
Carbon Tetrachloride	OS
Chlorobenzene	OS
Corn Oil	E
Cyclohexane	OS
Cyclohexanol	OS
Cyclohexanone	OS
Chloroform	NR
Diacetone Alcohol	NR
Diethyl Phthalate	E
Dimethyl Phthalate	E
Ethyl Acetate	OS
Ethylene Glycol	G
Ether	OS
Ethylene Dichloride	NR
Formaldehyde	OS
Gasoline	G
Glycerine	E

Chemical	RTZ
Glyoxal	E
Hydrogen Peroxide – 10%	G
JP5 Jet Fuel	G
Juices – Fruit	E
Juices – Vegetable	E
Kerosene	OS
Lanoline	E
Lard	G
Linseed Oil	G
Mayonnaise	E
Methyl Ethyl Ketone	NR
Methyl Isobutyl Ketone	NR
Methyl Salicylate – 50% in Toluene	NR
Methylene Chloride	NR
Milk	E
Mineral Spirits	G
Muriatic Acid (see Hydrochloric Acid)	-
Naphtha	OS
Naphthalene	OS
Oils – Cutting	G
Oils – Mineral	E
Oils – Vegetable	G
Peanut Butter	E
Perchloroethylene	OS
Phenol – 5%	OS
Pyridine	NR
Skydrol	G
Sucrose (Sugar) – Sat. 66.67%	E
Toluene	OS
Triacetin	E

Solvents and Other Chemicals (continued)

Chemical	RTZ
Trichloroethane	OS
Trichloroethylene	NR
Triethanolamine	E
Triethylene Glycol	E
Urea	G

Chemical	RTZ
Vinegar (Household)	G
Water	E
Wine	E
Xylene	OS

IMPORTANT:

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