

Chemical Resistance 1

Chemical Resistance of Ruabon Quarry Tiles. Applies to floor installations completed using epoxy grout.

Chemical product				Use		
Group	Name	Concentration w/w	°Bé	Laboratory Benches	Industrial Flooring	
					Permanent Exposure (20°C)	Occasional Exposure (20°C)
Acids	Acetic acid	2.5%	0.3	▲	▲	▲
		5%		▲	●	▲
		10%	1.8	■	■	■
	Hydrochloric acid	37%	23	▲	▲	▲
	Chromic acid	20%	20.3	■	■	■
	Citric acid	10%	5.6	▲	●	▲
		Formic acid	2.5%	1	▲	▲
	10%		3.5	■	■	■
	Lactic acid	2.5%		▲	▲	▲
		5%		▲	●	▲
		10%		●	■	●
	Nitric acid	25%	19	▲	●	▲
		50%	35	■	■	■
	Pure oleic acid			■	■	■
	Phosphoric acid	50%		▲	▲	▲
		75%	52.5	●	■	●
Sulphuric acid	1.5%		▲	▲	▲	
	50%	41	▲	▲	▲	
	96%	66	■	■	■	
Tannic acid	10%	5.6	▲	▲	▲	
Tartaric acid	10%	5.6	▲	▲	▲	
Oxalic acid	10%		▲	▲	▲	
Alkalis	Ammonia in solution	25%		▲	▲	▲
	Caustic soda	50%		▲	▲	▲
	Sodium hypochlorite solution	Active chlorine	6.4 g/l	▲	●	▲
		Active chlorine	162 g/l	■	■	■
Saturated solutions At 20°C	Sodium hyposulphate			▲	▲	▲
	Calcium chloride			▲	▲	▲
	Ferric chloride			▲	▲	▲
	Sodium chloride			▲	▲	▲
	Sodium chromate			▲	▲	▲
	Sugar			▲	▲	▲
	Aluminium sulphate			▲	▲	▲

Key to symbols: ▲ = Excellent resistance ● = Good resistance ■ = Poor resistance

Chemical Resistance 2

Chemical Resistance of Ruabon Quarry Tiles. Applies to floor installations completed using epoxy grout.

Chemical product				Use		
Group	Name	Concentration w/w	°Bé	Laboratory Benches	Industrial Flooring Permanent Exposure (20°C)	Industrial Flooring Occasional Exposure (20°C)
Salt Solutions	Potassium permanganate	5% 10%		▲ ▲	● ■	● ▲
	Potassium hydroxide	50%		▲	▲	▲
	Mercuric chloride	5%		▲	▲	▲
	Hydrogen peroxide	1% 10% 25%		▲ ▲ ▲	▲ ▲ ●	▲ ▲ ▲
	Sodium bisulphite	10%		▲	▲	▲
Oils & Fuels	Petrol			▲	▲	▲
	Oil of turpentine			▲	▲	▲
	Diesel oil			▲	▲	▲
	Coal-tar oil			▲	●	●
	Olive Oil			▲	▲	▲
	Light fuel oil			▲	▲	▲
	Heavy fuel oil			▲	▲	▲
	Crude oil			▲	▲	▲
Solvents	Acetone			■	■	■
	Ethylene glycol			▲	▲	▲
	Glycerine			▲	▲	▲
	Methylene glycol acetate			■	■	
	Perchloroethylene			■	■	●
	Carbon tetrachloride			●	■	●
	Ethyl alcohol			▲	●	▲
	Trichloroethylene			▲	▲	▲
	Chloroform			■	■	■
	Methylene chloride			■	■	■
	Tetrahydrofurane			■	■	■
	Toluene			■	■	●
	Carbon sulphide			●	■	●
	White spirit			▲	▲	▲
	Benzene			■	■	●
	Trichloroethane			■	■	■
Xylene			■	■	■	

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