

Chemical Resistance 1

Chemical Resistance of NTL Specification and Industrial Range 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 NTL Specification and Industrial Range 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)	
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			■	■	■		

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