



altro

UPDATED 12/05/17

# Stain + chemical resistance report

Altro Whiterock

Chemical	Concentration	Temp.	Resistant
<b>A</b>			
Acetaldehyde	40%	20	✓
Acetaldehyde	100%	20	✗
Acetic anhydride	100%	40	✗
Acetic acid	up to 60%	40	✓
Acetic acid	100%	40	✗
MeUc acid	80%	20	✓
Acetone	dilute	20	✗
Adipic acid	saturated solution	40	✓
Ammonia (gas)	100%	40	✓
Ammonia (solution)	saturated	40	✓
Amyl acetate		20	✗
Aniline	100%	20	✗
Aniline hydrochloride	saturated solution	40	✗
Aniline solution	saturated	20	✗
Anthraquinone		20	✓
Aqua regia		40	✓
Arsenic acid	up to 80%	40	✓
<b>B</b>			
Barium oxide	dry	40	✓
Benzene	100%	40	✗
Benzene aldehyde	0.10%	60	✗
Betadine (10% povidone iodine)			✓
Bleach			✓
Blue water gas		20	✓

Chemical	Concentration	Temp.	Resistant
Boric acid	dilute	40	✓
Boric acid	saturated	40	✓
Bromine (liquid)	100%	40	✗
Bromic acid	up to 10%	40	✓
Bromic acid	45%	40	✓
Bromine water		40	✓
Butane		20	✓
Butanol	100%	40	✓
Butyl acetate	100%	20	✗
<b>C</b>			
Carbamide	33%	40	✓
Carboxylic acid (dry gas)	100%	40	✓
Carboxylic acid (wet)	all concentrations	40	✓
Carboxylic acid dis-solved under pressure	saturated	20	✓
Ceryl alcohol	100%	40	✓
Chlone acid	over 30%	40	✓
Chloric acid	30% 19° H	40	✓
Chlorine gas (dry)	100%	20	✓
Chlorine gas (wet)	0.50%	20	✓
Chlorine water	saturated	40	✓
Chlorine water	12° 5	40	✓
Chlorine water	48%	40	✓
Chlorobenzene		20	✗
Chloroform		20	✗

✓ = Resistant

Chemical	Concentration	Temp.	Resistant
Chromic acid Solution	up to 50%	40	✓
Citric acid	up to 20%	40	✓
Citric acid	saturated	40	✓
City gas		20	✓
Cresylic acid	up to 100%	60	✗
Cupramonia compounds	commercial	20	✓
Cyclohexanol	100%	40	✗
Cycrohexanone	100%	40	✗
D			
Developer		40	✓
Dextrin solution	18%	20	✓
Dextrin solution	saturated	20	✓
Dichloroethane	100%	40	✗
E			
Ethyl acetate	100%	20	✗
Ethyl chloride		20	✗
Ethyl ether	100	20	✓
Ethyl glycol (Callosolve)		40	✓
Ethylene dichloride	100%	20	✗
Ethylene oxide	100%	40	✗
F			
Fatty acids	100%	40	✓
Formaldehyde	dilute	40	✓
Formaldehyde	40%	40	✓
Formic acid	up to 100%	40	✓
Furfural		40	✗
G			
Glucose	saturated	40	✓
Glykol	commercial solution	40	✓
Glycerine	all concentrations	40	✓
H			
Heavy benzene solvents		40	✓
Heptane		40	✓
Hexanol, tertiary	100%	40	✓
Hydrochloric acid, gas	all concentrations	40	✓
Hydrofluoric acid, traces		40	✓

Chemical	Concentration	Temp.	Resistant
Hydrogen, gas	100%	40	✓
Hydrogen peroxide	up to 20%	40	✓
Hydrogen peroxide	up to 30%	40	✓
Hydrogen tetrachloride	100%	40	✗
Hydroxylamine sulphate	12%	40	✓
I			
Iodine		40	✓
K			
Kerosine / petroleum		40	✓
L			
Lactic acid	up to 10%	40	✓
Lactic acid	90%	20	✓
Linseed oil		40	✓
M			
Methyl alcohol	100%	40	✓
Methyl chloride	100%	20	✗
Methyl ethyl ketone		40	✗
Methyl sulphate		40	✓
Methyl sulphuric acid	all concentrations	40	✓
Methylbenzene (toluene)	100%	40	✗
Methylene chloride	100%	20	✗
Monochloro-acetylic acid	85%	40	✓
Monochloro-acetylic acid	100%	40	✓
N			
Naphthalene	concentrated	40	✗
Nitrate gas	concentrated	60	✗
Nitric acid	up to 30% -23° B	40	✓
Nitric acid	30-50% -23-25° N	40	✓
Nitric acid	98% -40°B	20	✗
Nitrate products, traces		40	✓
O			
Oils and greases		40	✓
Oleic acid		40	✓
Oxalic acid	dilute	40	✓
Oxalic acid	concentrate	40	✓
Oxygen	fully concentrated	40	✓

Chemical	Concentration	Temp.	Resistant
Ozone	100%	20	✓
<b>P</b>			
Paper adhesive		40	✓
Paraffin emulsion		40	✓
Permutite-softened water		40	✓
Phenol / carboic acid	up to 90%	60	✗
Phenyhydrazine	100%	40	✗
Phenyhydrazine oxychloride	100%	40	✗
Phenyhydrazine carbon oxychloride	100%	20	✓
Phosphale trichloride		40	✗
Photographic emulsion		40	✓
Photographic fixing agents		40	✓
Phosphorus, white		20	✓
Picric acid	1%	20	✓
Potassium solution	up to 40%	40	✓
Potassium solution	50-60%	40	✓
Propafol, liquid	100%	20	✓
Propane, gas	100%	20	✓
<b>Q</b>			
Quicksilver		40	✓
<b>R</b>			
Residual gas w/sulphuric acid	all concentrations	40	✓
<b>S</b>			
Salts of Aluminum	suspension or dilute	40	✓
Salts of Ammonia	concentrated	40	✓
Salts of Antimony	concentrated	40	✓
Salts of Barium	concentrated	40	✓
Salts of Bismuth	concentrated	40	✓
Salts of Calcium	concentrated	40	✓
Salts of Chromium	concentrated	40	✓
Salts of Copper	concentrated	40	✓
Salts of Iron	concentrated	40	✓
Salts of Lead	concentrated	40	✓
Salts of Nickel	concentrated	40	✓

Chemical	Concentration	Temp.	Resistant
Salts of Potassium	concentrated	40	✓
Salts of Silver	concentrated	40	✓
Salts of Soda	concentrated	40	✓
Salts of Tin	concentrated	40	✓
Salts of Zinc	concentrated	40	✓
Seawater		40	✓
Silver nitrate			✓
Silver solution		40	✓
Smoke from dry combustion		40	✓
Soap solution	fully concentrated	40	✓
Soda solution	50-60%	40	✓
Sodium hypochlorite			✓
Stearic acid	100%	40	✓
Sulphuric acid	up to 40% -34° B	40	✓
Sulphuric acid	40-80% -34-61° B	40	✓
Sulphuric acid	80-95% -61-65° B	40	✓
Sulphuric acid	95% -66° B	40	✓
<b>T</b>			
Tartaric acid	up to 10%	40	✓
Tartaric acid	saturated	40	✓
Tetraethyl lead	100%	20	✓
Tetrahydrofuran		40	✗
Thionyl chloride		20	✗
Tributyl phosphate		40	✗
Trichloroethene	100%	20	✗
Triethanolmine	100%	20	✓
Triethylamine		40	✓
Turpentine spirits		40	✓
<b>V</b>			
Vegetable tannage extracts	solution	20	✓
Vinyl acetate	100%	20	✗
<b>W</b>			
Water		40	✓
Wine, red or white		20	✓
Wine vinegar		40	✓