

Chemical contact tests have been carried out on the below Centrecoat range of flooring products, found below. All tests were effected on fully cured samples being cast as coupons measuring 50 x 50 x 2mm.

Rating	Expectations
E	Excellent, expected to be adequately protecting the substrate after long periods of immersion (e.g. 5 - 10 years)
VG	Very good, expected to be unaffected after 2 years immersion but may fail thereafter.
G	Good, unaffected after 1 year but may begin to fail thereafter.
F	Fair, unaffected after 3- 6 months immersion, thereafter failure is likely to occur.
NR	Not resistant, failure will occur in most cases fairly rapidly, certainly within a month of immersion.
NE	Not evaluated or tested. It should be noted that these tests consider total immersion conditions and as such represent the most severe contact conditions.

In most practical applications, the contact with chemicals is only on the uppermost surface and even then intermittently throughout the working day after which they become diluted or are flushed away. As a result, many of the NR classifications will offer adequate resistances where “good housekeeping” is practised. Similarly, strong organic solvents which possess highly volatile characteristics are likely to evaporate from a floor surface before causing deleterious effects.

If doubt exists as to the suitability of the Centrecoat flooring products, please contact Promain’s Technical Team. Product groups have been calculated into generic resin types; also being governed by film thickness:

Group	Type	Products
A	Epoxy Based Products	ArmourCoat Epoxy Tack Coat, <a href="#">Armourcoat 3-350 Primer</a> , <a href="#">ArmourCoat Epoxy DPM</a> , <a href="#">ArmourCoat 3-350</a> , <a href="#">ArmourCoat HB 3-400</a> , <a href="#">ArmourCoat WB 2-200</a> , ArmourCoat Epoxy Coloured Grout, ArmourCoat Epoxy 5 Flow, ArmourCoat Epoxy 6 Lightweight Wall Render, ArmourCoat Epoxy 6 Floor Screed, ArmourCoat Epoxy Sealer
B	Flexible Epoxy Based Systems	<a href="#">ArmourCoat Epoxy Joint Compound</a> , <a href="#">ArmourCoat Epoxy Gloss Wall Coating</a>
C	Water Thinnable Epoxy Based Products	ArmourCoat WB Silk Wall Coating
D	Polyurethane Based Products	<a href="#">ArmourCoat PUFlex</a> , <a href="#">Armourcoat HF</a> , ArmourCoat PU 7 MD, ArmourCoat PU 5 SL, <a href="#">ArmourCoat PU 2 TE</a> , ArmourCoat PU 6 CG, ArmourCoat PU 6 Wall Render, ArmourCoat PUFlex 5 SL, ArmourCoat PUFlex 3 HB, ArmourCoat PUFlex 5 SL UVR, ArmourCoat Bulk PU Repair Mortar, ArmourCoat Floor PU Repair Mortar, ArmourCoat PU Grout
E	Polyurethane Based Sealers	<a href="#">ArmourCoat Multi-Use Primer</a> , ArmourCoat PU 1 UVR, ArmourCoat PU 1 Sealer I & II, ArmourCoat PU 1 Sealer III

Product Group	A	B	C	D	E	Product Group	A	B	C	D	E
Acetaldehyde	NR	NR	NR	F	NR	Chlorobenzene	NR	NR	NR	F	NR
Acetic acid 5% @ 20°C	NR	NR	NR	E	NR	Chloroform	NR	NR	NR	NR	NR
Acetic acid 10% @ 20°C	NR	NR	NR	E	NR	Chromic acid 1% @20°C	E	E	NR	E	E
Acetic acid 10% @ 60°C	NR	NR	NR	NR	NR	Chromic acid 5% @20°C	E	E	NR	E	E
Acetic acid 20% @ 20°C	NR	NR	NR	E	NR	Chromic acid 10% @20°C	E	E	NR	E	E
Acetic acid 30% @ 20°C	NR	NR	NR	E	NR	Chromic acid 30% @20°C	E	E	NR	E	E
Acetic acid 30% @ 60°C	NR	NR	NR	NR	NR	Clopen A30	E	NR	F	E	E
Acetic anhydride	NR	NR	NR	E	NR	Clopen A60	E	NR	F	E	E
Acetone	NR	NR	NR	NR	NR	Citric acid 10% @ 20°C	E	NR	F	E	E
Acetonitrile	NR	NR	NR	E	NR	Citric acid 30% @ 20°C	E	NR	F	E	100%:E
Acetyl chloride	NR	NR	NR	E	F	Cleaning agent for heavy duty vehicles – 10%	VG	NR	NR	E	NR
Acrolein	NR	NR	NR	E	NR	Cleanin agent for heavy duty vehicles – conc'n	E	F	G	E	E
Acrylic acid 100% @ 20°C	NR	NR	NR	E	NR	Cleaning petrol	E	F	E	E	E
Acrylic methyl ester	NR	NR	NR	E	F	Coconut fatty acid	E	F	E	E	E
Acrylonitrile	NR	NR	NR	F	NR	Coconut oil	E	E	E	E	E
Adiponitrile	VG	NR	F	E	F	Cod liver oil	E	E	E	E	E
Allyl alcohol	NR	NR	NR	E	F	Common salt sol'n 5% @ 20°C	E	E	E	E	E
Allyl chloride	NR	NR	NR	E	F	Common salt sol'n sat'd	E	E	E	E	E
Aluminium sulphate 30% @ 20°C	E	E	E	E	E	Copper sulphate sol'n 30% @ 20°C	E	E	E	E	E
Amines	NR	NR	NR	F	F	Cotton seed oil	E	E	E	E	E
Ammonia 0.880 @ 20°C	NR	NR	NR	E	NR	Creosote	E	NR	F	E	F
Ammonia (aq. Sol'n) 40% @ 20°C	G	F	NR	VG	F	Cresylic acid	NR	NR	NR	F	NR
Ammonium chloride 30% @ 20°C	E	E	E	E	E	Crotonaldehyde	NR	NR	NR	F	NR
Ammonium nitrate 30% @ 20°C	E	E	E	E	E	Crude oil	E	E	E	E	E
Amyl acetate (mixed isomers)	G	NE	F	E	G	Cyclohexane	E	NR	E	E	E
Aniline	NR	NE	NR	F	NE	Cyclohexanol	E	NR	F	E	E
Aromasol H	E	NR	F	E	E	Cyclohexanone	NR	NR	NR	E	E
Beer	E	E	E	E	E	Decanol	E	NR	E	E	E
Benzene	NR	NR	NR	E	E	Deionized water	E	E	E	E	E
Benzyl alcohol	NR	NR	NR	E	NR	Detergent solution 3%	E	E	E	E	E
Benzul chloride	NR	NE	NR	E	NE	Diacetone alcohol	E	NR	F	E	E
Blood	E	E	E	E	E	Dibutyl phthalate	E	E	E	E	E
Boric acid 20% @ 20°C	VG	NE	NR	E	NE	Dichlorobenzene	E	NR	F	E	F
3 – 30% Brine	E	E	E	E	E	Dichloroethane	NR	NR	NR	VG	NR
Butanol	VG	NE	F	E	G	Dichloroethylene	NR	NR	NR	E	NR
Butyl acetate	VG	NE	F	E	G	Dichloromethane	NR	NR	NR	E	NR
Butyl acrylate	E	NE	F	E	G	Dichloropropane	E	NR	NR	E	E
Butyl benzyl phthalate	E	NE	F	E	G	Dicyclopentadiene	VG	F	G	E	G
Butyl ether	E	G	E	E	E	Diesel oil	E	F	E	E	E
Butyric acid	NR	NE	NR	F	NE	Diethanolamine	VG	NR	F	E	G
Butyrolactone	NR	NE	NR	F	NE	Diethylamine (aq. Sol'n) 50% @ 20°C	NR	NR	NR	F	NR
Calcium carbonate –sat'd sol'n	E	E	E	E	E	Diethylamine (aq. Sol'n) 60% @ 20°C	NR	NR	NR	NR	NR
Calcium hydroxide 30% susp'n	E	E	E	E	E	Diethylene glycol	NR	NR	NR	F	NR
Caprolactam 20% @ 20°C	VG	NE	F	E	E	Diethylene glycol monobutyl ether	F	NR	NR	G	NR
Caprolactam 30% @ 20°C	VG	NE	F	E	E	Diethylene glycol monoethyl ether	NR	NR	NR	VG	NR

Product Group	A	B	C	D	E	Product Group	A	B	C	D	E
Caprolactam 50% @ 20°C	VG	NE	F	E	E	Diethylene glycol monomethyl ether	NR	NR	NR	VG	NR
Caprolactam 100% @ 20°C	VG	NE	F	E	E	Diethylene triamin 100% @ 20°C	NR	NR	NR	NR	NR
Carbon tetrachloride	G	NR	NR	E	F	Diethylether	F	NE	NR	G	NE
Castor oil	E	E	E	E	E	di-isobutyl ketone	E	NE	F	E	F
Chicken fats	G	NR	NR	E	F	Dimethylamine (aq.sol'n) 40% @ 20°C	F	NR	NR	G	NR
Chloride of lime sol'n 1% @ 20°C	E	G	F	E	E	Dimethylamine (aq. Sol'n) 50% @ 20°C	NR	NR	NR	NR	NR
Chlorinated paraffin	E	F	G	E	G						

Product Group	A	B	C	D	E	Product Group	A	B	C	D	E
2-Diethylaminoethanol	G	NR	F	VG	F	Hydrofluoric acid 48% @ 20°C	NR	NR	NR	E	NR
Dimethyl formamide (DMF)	NR	NR	NR	NR	NR	Hydrogen peroxide 3% @ 20°C	VG	E	F	E	E
di-N-butyl phthalate	E	E	E	E	E	Hydrogen peroxide 100% @ 20°C	G	E	F	E	E
Di-octyl phthalate	E	E	E	E	E	Hydrogen sulphide	F	NR	NR	VG	F
Dioxan	NR	NR	NR	VG	F	Iso-amyl acetate	E	NR	F	E	VG
Dipentene	E	NR	F	E	E	Iso-amyl alcohol	G	NR	F	E	VG
Di-propylene glycol	E	E	E	E	E	Iso-butanol	G	NR	F	E	VG
Dishwashing detergent 3%	E	E	E	E	E	Iso-butyl acetate	E	NR	G	E	E
Dutrex 217 UK	E	NE	NE	E	NE	Iso-butyraldehyde	NR	NR	NR	F	F
Electrocoating	VG	NR	NR	E	E	Iso-octanol	E	NR	F	E	E
Epichlorohydrin	NR	NR	NR	E	F	Iso-pentane	E	NR	F	E	E
Ethanol 10% @ 20°C	E	G	E	E	E	Iso-phorone	F	NR	NR	G	G
Ethanol 15% @ 20°C	E	F	VG	E	E	Iso-phorone diamine 100% @20°C	NR	NR	NR	F	F
Ethanol 70% @ 20°C	E	NR	G	E	E	Isoprene	G	F	F	E	F
Ethanol 96% @ 20°C	E	NR	F	E	E	Iso-propanol	F	NR	NR	E	E
Ethanolamine	NR	NR	NR	F	F	Iso-propyl alcohol	G	NR	F	VG	F
Ethyl acetate	NR	NR	NR	E	E	Jet fuel	VG	F	F	E	E
Ethyl acrylate	NR	NR	NR	E	E	Kerosene	VG	F	F	E	E
Ethyl benzene	VG	NE	NE	NE	NE	Lactic acid 2% @ 20°C	E	NR	G	E	E
Ethylene diamine	NR	NR	NR	F	F	Lactic acid 5% @ 20°C	VG	NR	F	E	E
Ethyl glycol	VG	NR	NR	E	F	Lactic acid 30% @ 20°C	F	NR	NR	E	F
Ethylene glycol	E	E	E	E	E	Lactic acid 90% @ 20°C	NR	NR	NR	E	NR
Ethyl glycol acetate	E	NR	F	E	E	Lard	E	E	E	E	E
Ethylene glycol monobutyl ether	G	NR	F	E	G	Lime juice	F	NR	NR	E	F
Ethylene glycol monobutyl acetate	VG	NR	F	E	G	Linseed fatty acid	E	F	E	E	E
Ethylene glycol monoethyl ether	NR	NR	NR	F	NR	Linseed oil	E	E	E	E	E
Ethylene glycol monoethyl ether acetate	NE	NR	F	E	G	Maleic acid 30% @ 20°C	VG	G	F	E	E
Ethylene glycol monomethyl ether	NR	NR	NR	NR	NR	Methanol	NR	NR	NR	E	E
2-ethyl hexanol	E	NR	F	E	F	Methyl acetate	NR	NR	NR	E	NR
2-ethyl hexyl acrylate	VG	NR	F	E	G	Methyl acrylate	NR	NR	NR	E	E
Ethylene imine	NR	NR	NR	F	NR	Methylene chloride	NR	NR	NR	NR	NR
Fish oil	E	E	E	E	E	Meta cresol	NE	NE	NR	F	NR
Formaldehyde 40% @ 20°C	VG	NR	NR	E	NR	Methyl ethyl ketone (MEK)	NR	NR	NR	NR	NR
Formaldehyde 100% @ 20°C	G	NR	NR	VG	NR	Methyl glycol acetate	G	NR	F	F	G
Formic acid 5% @ 20°C	G	NR	NR	E	NR	Methyl isobutyl ketone (MIBK)	F	NR	NR	F	F
Formic acid 10% @ 20°C	F	NR	NR	E	NR	Methyl methacrylate	NR	NR	NR	E	F
Formic acid 20% @ 20°C	NR	NR	NR	E	NR	Milk	E	NR	E	E	VG
Formic acid 30% @ 20°C	NR	NR	NR	E	NR	Mineral oil	E	G	E	E	E
Formic acid 98% @ 20°C	NR	NR	NR	F	NR	Molasses	E	E	E	E	E
Furfural	NR	NR	NR	F	NR	Morpholine	NR	NR	NR	F	NR
Furfuryl alcohol	NR	NR	NR	F	NR	n-animo ethyl piperazine 100% @ 20°C	NR	NR	NR	F	F

Product Group	A	B	C	D	E	Product Group	A	B	C	D	E
Glycerol	E	F	E	E	E	Naphtha (petroleum)	VG	NR	F	E	F
Grape juice	G	NR	F	E	F	Naphtha (solvent)	E	NR	F	E	F
Groundnut oil	E	F	G	E	VG	Naphthenic acid	E	E	E	E	E
Heptane	E	NR	F	E	E	n-butanol	VG	NR	F	E	G
Hexane	E	NR	F	E	E	n-butyl acetate	VG	NR	F	E	G
Hexylene glycol	E	NR	G	E	G	n-heptanol	E	NR	F	E	E
Hydrazine hydrate	G	F	F	G	NR	n-hexanol	E	NR	F	E	E
Hydrochloric acid 5% @ 20°C	VG	F	F	E	NR	Nitric acid 1% @ 20°C	E	E	F	E	E
Hydrochloric acid 10% @ 20°C	G	F	NR	E	NR	Nitric acid 3% @ 20°C	E	G	NR	E	E
Hydrochloric acid 36% @ 20°C	NR	NR	NR	E	NR	Nitric acid 5% @ 20°C	G	F	NR	E	E
						Nitric acid 10% @ 20°C	G	NE	NR	E	F