EUROSTEP
Posadzki i nawierzchnie syntetyczne

Chemical Resistance report for the:

PUCEM TF
PUCEM HF
PUCEM SL

Please Note:

- *Discoloration not classified as chemical attack if hardness is unchanged.*
- *Higher temperatures will reduce the chemical resistance shown in the performance table. Some chemicals may concentrate due to evaporation and become more aggressive.*
- *Mixtures of chemicals can be more aggressive than might be expected from the individual components alone.*
- *Solvent resistant performances, in practice, are expected to exceed the values noted in the performance table due to good housekeeping combined with evaporation.*
- *The chemical resistance of Epoxy screed systems will be influenced by the integrity of the surface sealer – this being dependent upon service conditions and housekeeping.*
- *The assessment is based on a resin rich screed where permeation by liquid chemicals is minimal.*
- *The use of a highly filled screed will significantly reduce the chemical resistance shown in the performance table.*

Rating & Description Explanation

Rating	*Description*	*Explanation*
5	*Excellent*	*No deleterious action after long term contact*
3	*Medium term*	*Unaffected after 1 month contact but may begin to fail thereafter*
1	*Short term*	*Unaffected after 24 hours contact but may begin to fail thereafter.*
0	*Not resistant*	*Attacked on contact or within 2-3 hours*

Chemical	%	Polyurethane coating	Polyurethane screed
Acetaldehyde		0	3
Acetic Acid at 20°C	5	1	5
Acetic Acid at 20°C	10	1	5
Acetic Acid at 60°C	10	0	0
Acetic Acid at 20°C	20	0	5
Acetic Acid at 20°C	30	0	4
Acetic Acid at 60°C	30	0	0
Acetic Anhydride		0	5
Acetone		0	0
Acetonitrile		0	5
Acetyl Chloride		3	5
Acrolein		0	5
Acrylic acid at 20°C		0	5
Acrylic Methyl Ester		3	5
Acrylonitrile		0	3
Adiponitrile		3	5
Allyl Alcohol		3	5
Allyl Chloride		3	5
Aluminium Sulphate at 20°C	30	5	5
Amines		3	3
Ammonia 0.880 at 20°C		0	5
Ammonia (aq. Sol'n) at 20°C	40	3	3
Ammonium chloride at 20°C	30	5	5
Ammonium Nitrate at 20°C	30	5	5
Amyl Acetate (Mixed Isomers)		3	5
Aniline		0	3
Aromasol H		5	5
Beer		5	5
Benzene		5	5
Benzyl Alcohol		0	5
Benzyl Chloride		0	5
Blood		5	5
Boric Acid at 20°C	20	3	5
Brine	30	5	5
Butanol		1	5
Butyl Acetate		3	5
Butyl Acrylate		3	5
Butyl Benzyl Phthalate		3	5
Butyl Ether		5	5
Butyric Acid		0	3

Chemical	%	Polyurethane coating	Polyurethane screed
Butyrolactone		0	3
Calcium Carbonate sol'n	Sat'd	5	5
Calcium Hydroxide susp'n	30	5	5
Caprolactam at 20°C	20	5	5
Caprolactam at 20°C	30	5	5
Caprolactam at 20°C	50	5	5
Caprolactam at 20°C	100	5	5
Carbon Tetrachloride		5	5
Castor Oil		5	5
Chicken Fats		3	5
Chloride of Lime sol'n at 20°C	1	5	5
Chlorinated Paraffin		3	5
Chlorobenzene		0	3
Chloroform		0	0
Chromic acid at 20°C	1	5	5
Chromic acid at 20°C	5	3	3
Chromic acid at 20°C	10	3	3
Chromic acid at 20°C	30	3	3
Ciopen A30		5	5
Ciopen A60		5	5
Citric acid at 20°C	10	5	5
Citric acid at 20°C	30	5	5
Cleaning agent for heavy duty vehicles	10	0	5
Cleaning agent for heavy duty vehicles concentrate		0	5
Cleaning petrol		5	5
Coconut fatty acid		5	5
Coconut oil		5	5
Cod liver oil		5	5
Common Salt sol'n at 20°C	5	5	5
Common Salt sol'n	Sat'd	5	5
Copper Sulphate sol'n at 20°C	30	5	5
Cotton Seed Oil		5	5
Creosote		3	5
Cresylic acid		0	3
Crotonaldehyde		0	3
Crude Oil		5	5
Cyclohexane		5	5
Cyclohexanol		5	5
Cyclohexanone		5	5

Chemical	%	Polyurethane coating	Polyurethane screed
Deionized water		5	5
Detergent solution	3	5	5
Diacetone alcohol		5	5
Dibutyl phthalate		5	5
Dichlorobenzene		3	5
Dichloroethane		0	3
Dichloroethylene		0	5
Dichloromethane		0	5
Dichloropropane		5	5
Dicyclopentadiene		3	5
Diesel oil		5	5
Diethanolamine		3	5
Diethylamine (aq. Sol'n) - 20°C	50	0	3
Diethylamine (aq. Sol'n) - 20°C	60	0	0
Diethylene glycol		0	3
Diethylene glycol monobutyl ether		0	3
Diethylene glycol monoethyl ether		0	3
Diethylene glycol monomethyl ether		0	3
Diethylene triamine at 20°C	100	0	4
Diethylether		0	3
Di-isobutyl ketone		3	5
Dimethylamine (aq.sol'n) - 20°C	40	0	3
Dimethylamine (aq. Sol'n) - 20°C	50	0	0
2-Diethylaminoethanol		3	3
Dimethyl formamide (DMF)		0	0
Di-N-butyl phthalate		5	5
Di-octyl phthalate		5	5
Dioxane		3	5
Dipentene		5	5
Di-propylene glycol		5	5
Dishwashing detergent	3	5	5
Dutrex 217 UK		0	5
Electrocoating		5 5	
Epichlorohydrin	3	5	
Ethanol at 20°C	10	5	5
Ethanol at 20°C	15	5	5
Ethanol at 20°C	70	5	5
Ethanol at 20°C	96	5	5
Ethanolamine		3	3
Ethyl Acetate		5	5

Chemical	%	Polyurethane coating	Polyurethane screed
Ethyl Acrylate		5	5
Ethyl Benzene		3	3
Ethylene Diamine		3	3
Ethyl glycol		3	5
Ethylene glycol		5	5
Ethyl glycol acetate		5	5
Ethylene Glycol Monobutyl ether		3	5
Ethylene Glycol monobutyl ether acetate		3	5
Ethylene glycol monoethyl ether		0	3
Ethylene glycol monoethyl ether acetate		3	5
Ethylene glycol monomethyl ether		0	0
2-ethyl hexanol		3	5
2-ethyl hexyl acrylate		3	5
Ethylene Amine		0	3
Fish Oil		5	5
Formaldehyde at 20°C	40	0	5
Formaldehyde at 20°C	100	0	5
Formic acid at 20°C	5	0	5
Formic acid at 20°C	10	0	5
Formic acid at 20°C	20	0	5
Formic acid at 20°C	30	0	5
Formic acid at 20°C	98	0	3
Furfural		0	3
Furfuryl alcohol		0	3
Glycerol		5	5
Grape Juice		3	5
Groundnut oil		5	5
Heptane		5	5
Hexane		5	5
Hexylene glycol		3	5
Hydrazine Hydrate		0	3
Hydrochloric acid at 20°C	5	0	5
Hydrochloric acid at 20°C	10	0	5
Hydrochloric acid at 20°C	36	0	3
Hydrochloric acid at 20°C	20	0	0
Hydrogen peroxide at 20°C	3	5	5
Hydrogen peroxide at 20°C	30	5	5
Hydrogen sulphide		3	5
Iso-amyl acetate		5	5
Iso-amyl alcohol		5	5

Chemical	%	Polyurethane coating	Polyurethane screed
Iso-butanol		5	5
Iso-butyl acetate		5	5
Iso-butyl aldehyde		3	3
Iso-octanoll		5	5
Iso-pentane		5	5
Iso-phorone		3	3
Iso-phorone diamine at 20°C		3	3
Isoprene		3	5
Iso-propanol		5	5
Jet Fuel		5	5
Kerosene		5	5
Lactic acid at 20°C	2	5	5
Lactic acid at 20°C	5	5	5
Lactic acid at 20°C	30	3	5
Lactic acid at 20°C	90	0	5
Lard		5	5
Lime Juice		3	5
Linseed fatty acid		5	5
Linseed oil		5	5
Maleic acid at 20°C	30	5	5
Methanol		5	5
Methyl acetate		0	5
Methyl acrylate		5	5
Methylene chloride		0	0
Meta cresol		0	3
Methyl ethyl ketone (MEK)		0	0
Methyl glycol acetate		3	3
Methyl Isobutyl ketone (MIBK)		3	3
Methyl methacrylate		3	5
N-methyl pyrollidone		0	0
Milk		5	5
Mineral oil		5	5
Molasses		5	5
Morpholine		0	3
n-a mino ethyl piperazine at 20°C		3	3
Naphtha (petroleum)		3	5
Naphtha (solvent)		3	5
Naphthenic acid		5	5
n-b utanol		3	5
n-butyl acetate		3	5

Chemical	%	Polyurethane coating	Polyurethane screed
n-heptanol		5	5
n-hexanol		5	5
Nitric acid at 20°C	1	5	5
Nitric acid at 20°C	3	5	5
Nitric acid at 20°C	5	5	5
Nitric acid at 20°C	10	5	5
Nitric acid at 20°C	30	0	5
Nitric acid at 20°C	69	0	0
Nitrobenzene		0	0
Nitro-ethane		0	0
Nitro-propane (mixed isomers)		0	3
Nonanol		3	5
Nonyl phenol		5	5
n-pentane		5	5
Octanol		5	5
Oleic acid at 20°C	100	5	5
Olive Oil		5	5
Ortho cresol		0	3
Orthophosphoric acid at 20°C	85	3	5
Oxalic acid at 20°C	2	3	5
Oxalic acid at 20°C	10	5	5
Palm Kernel oil		5	5
Para cresol (aq)		0	3
Paraffin		5	5
Paraffin wax		5	5
Pentane (mixed isomers)		5	5
Perchlorethylene		5	5
Perchloric acid at 20°C	30	3	4
Petrol		5	5
Petroleum ether		5	5
Phenol		0	0
Phosphoric acid at 20°C	5	5	5
Phosphoric acid at 20°C	10	5	5
Phosphoric acid at 20°C	20	5	5
Phosphoric acid at 20°C	50	5	5
Photographic developer sol'n	10	5	5
Pine oil		5	5
Polypropylene glycol		5	5
Potassium dichromate at 20°C	20	3	5
Potassium hydroxide sol'n at 20°C	5	5	5

Chemical	%	Polyurethane coating	Polyurethane screed
Potassium hydroxide sol'n at 20°C	10	5	5
Potassium hydroxide sol'n at 100°C	10	5	5
Potassium hydroxide sol'n at 20°C	20	5	5
Potassium hydroxide sol'n at 20°C	50	5	5
Pyridine		3	3
Pyridine bases		3	3
Seawater		5	5
Sec-butanol		3	5
Shell Rotella oil		5	5
Shellsol A		3	5
Shellsol T		3	5
Silicone oil		5	5
Skydrol A500		5	5
Soap solution		5	5
Soda solution (saturated)		5	5
Soda solution (dilute)		5	5
Sodium Chloride (sat'd sol'n)		5	5
Sodium dichromate aq. Sol'n - 20°C	33	3	5
Sodium bicarbonate (aq)		5	5
Sodium hydroxide at 20°C	5	5	5
Sodium hydroxide at 20°C	20	5	5
Sodium hydroxide at 20°C	50	5	5
Sodium hydroxide at 60°C	50	0	0
Sodium hypochlorite sol'n 15% available Cl at 20°C		5	5
Sodium nitrate at 20°C	20	5	5
Solvesso 150		3	5
Soya bean oil		5	5
Stannic chloride		5	5
Styrene		3	5
Succinic acid	10	0	5
Sugar solution at 20°C	30	5	5
Sulphuric acid at 20°C	5	3	5
Sulphuric acid at 20°C	10	3	5
Sulphuric acid at 100°C	10	0	0
Sulphuric acid at 20°C	20	0	5
Sulphuric acid at 20°C	30	0	3
Sulphuric acid at 20°C	50	0	3
Sulphuric acid at 20°	98	0	0
Sunflower seed oil		5	5
Tall oil		5	5

Chemical	%	Polyurethane coating	Polyurethane screed
Tall oil fatty acid		5	5
Tallow		5	5
Tapwater		5	5
Tartaric acid at 20°C	5	5	5
Tartar solution at 20°C	5	0	5
Teepol		5	5
Tert-butanol		3	5
Tetrachloroethylene		3	5
Tetrahydrofuran (THF)		0	3
Tetrahydronaphthalene		3	5
Titanium tetrachloride		3	3
Toluene		1	1
Toluene-di-isocyanate		5	5
Tributyl citrate		5	5
1,1,1 – trichloroethane		0	5
Trichloroethylene		0	0
Tri cresyl phosphate		5	5
Triethanolamine		3	5
Triethylene glycol		5	5
Triethylene cetramine		3	5
Triolyl phosphate		5	5
Trixylyl phosphate		5	5
Urea at 20°C	30	5	5
Vegetable Juice		5	5
Water at 20°C		5	5
Water, distilled at 100°C		5	5
Whisky		5	5
White Spirit		5	5
Wine		5	5
Xylene (mixed Isomers)		5	5