BASF
The Chemical Company

TransNet Your Partners in Power

KBS® Coating

Compatibility with various chemicals

Detergent	Concentration	Short-time*-exposure	Long-time*-exposure
1.2-Ethanediol	undiluted	1	3
Acetessigsäureethylester	undiluted	2	5
Acetic acid	undiluted	3	5
Acetic acid	10 %	1	1
Acetic acid ethylester	undiluted	3	5
Acetone	undiluted	5	5
Acetyl chloride	100 %	3	5
Acrylonitrile	undiluted	3	4
Alcohol, aliphatic, general	undiluted	3	3
Ammonia	25 %	2	4
Ammonia	approx. 3,5%	2	4
Ammonium chloride	- see Ammonia		
Aromatic solvents, general	undiluted	5	5
Benzine/Gasoline/Petrol	undiluted	2	2
Benzene	undiluted	5	5
Boric acid	3 %	2	3
Calcium hydroxide	saturated solution	1	3
Carbon disulfide	undiluted	3	5
Carbon tetrachloride	- see Tetrachloromethane		
Caustic potash (potassium hydroxide)	approx. 50 %	1	5
Caustic potash (potassium hydroxide)	10 %	1	4
Caustic potash (potassium hydroxide)	1 %	1	4
Caustic soda	50 %	2	5
Caustic soda	21 %	2	5
Caustic soda	10 %	2	5
Caustic soda	1 %	2	5
Chloracetessigsäueethylester	undiluted	3	5
Chloracetylchloride	undiluted	4	5
Chlorine	75% gas	2	3
Chlorosulfonic acid	100 %	5	5

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Detergent	Concentration	Short-time*-exposure	Long-time*-exposure
Chromic acid	45 %	4	5
Chromic acid	5 %	4	5
Dichloromethane	undiluted	5	5
Diesel fuel	undiluted	1	2
Dimethylformamide	undiluted	3	4
Diphyl (Mixture of Diphenyl and Diphenyl ether)	undiluted	2	4
Engine oil	undiluted	1	1
Ethanol	96 %	3	3
Ethanol	20 %	2	3
Ethylacetate	- see Acetic acid ethylester		
Ethylalcohol	- see Ethanol		
Ethylene glycol	- see 1.2-Ethanediol		
Formaldehyde	30 %	1	3
Formaldehyde	3 %	1	2
Formalin	- see Formaldehyde		
Fuel oil (EL) (corresponding to DIN 51603)	Undiluted	1	2
Furfural	Undiluted	3	4
Glacial acetic acid	- see Acetic acid		
Glycerine	- see Glycerol		
Glycerol	Undiluted	2	2
Glycol	- see 1.2-Ethanediol		
Hydrochloric acid	undiluted	2	4
Hydrochloric acid	32 %	2	4
Hydrochloric acid	21 %	2	3
Hydrochloric acid	10 %	2	3
Hydrochloric acid	1 %	1	2
Hydrogen fluoride	50% gas	2	2
Hydrogen peroxide	30 %	1	5
Hydrogen peroxide	3 %	1	5
Insulating oil	- see Transformer oil		

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Isoamyl alcohol	Undiluted	1	3
Kerosene	undiluted	1	2
Leaches , general	concentrated	1	5
Leaches, general	diluted	1	4
Methanol	undiluted	2	3
Methyl alcohol	- see Methanol		
Methylene chloride	- see Dichloromethane		
Mineral acids, general	diluted	2	3
Mineral acids, general (except sulphuric acid)	concentrated	2	4
Monochloro acetic acid	100 % at 80°C	4	5
Nitric acid	undiluted	2	5
Nitric acid	10 %	1	3
Nitric acid	1 %	1	3
Octanoyl chloride	undiluted	3	5
Oxygen	100% gas	1	1
Perchloroethylene	- see Tetrachloroethane		
Phosphoric acid	undiluted	2	4
Phosphoric acid	10 %	2	4
Phosphoric acid	1 %	1	2
Phosphoric acid diphenylcresyl ester	undiluted	2	3
Phosphoric acid tributyl ester	undiluted	2	2
Phosphoric acid trioctyl ester	undiluted	2	2
Phosphoric acid-2-ethylhexyl ester	undiluted	2	2
Pivaloyl chloride	undiluted	3	4
Polychlorinated biphenyl (PCB)	undiluted	2	5
Polyglycol	60 %	1	2
Potassium chloride	10 %	2	2
Sea water	3 %	2	2
Soda	- see Sodium carbonate		
Sodium bisulphite	30 – 40%	2	3

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Sodium carbonate	10 %	1	3
Sodium chloride (common salt)	- see Sodium chloride		
Sodium chloride	10 %	2	2
Sodium hypochlorite	10 %	2	4
Sodium hypochlorite solution	- see Sodium hypochlorite		
Softener	- see Phosphoric acid ester		
Sulfuryl chloride	100 %	4	5
Sulphur dioxide	gas, approx. 10 Vol.-%	2	2
Sulfuric acid	undiluted	4	5
Sulfuric acid	10 %	2	2
Sulfuric acid	1 %	1	2
Tap water	undiluted	1	2
Tetrachloroethane	undiluted	2	5
Tetrachloromethane	undiluted	3	5
Thionyl chloride	undiluted	3	5
Toluene	undiluted	3	5
Transformer oil	undiluted	2	2
Turbine oil (corresponding to DIN 51515)	undiluted	1	1
Urea	10 %	1	1
Waste oil	undiluted	2	2
Water, distilled	undiluted	1	2
Xylene	undiluted	3	5

*** Short-time exposure:**
The test samples were totally submerged in the test chemical for 30 minutes, then removed, rinsed with a suitable solvent and dried (20°C).

*** Long-time exposure:**
The test samples were totally submerged in the test chemical for a minimum of 28 days, then dried without prior rinsing and closely inspected (20°C).

Explanation of code:

1 totally unaffected
2 compatible, only negligible or superficial effects
3 conditionally compatible, considerable softening or brittleness, distinct change of colour
4 not compatible, unacceptable softening or hardening, discoloration, dissolving of surface
5 disintegration of coating