

Chemical resistance

The resistance of the cured mortar to chemical agents was determined by Storage of samples with quartz arenaceous in the respective chemical media. The chemical resistance of the specimens was determined by visual evaluation. In the table below the samples were judged resistant when the specimens - by laying in the respective chemical media - showed that neither visible damages such as Cracks, corroded surfaces or flattened Corners, nor any strong swelling were to be found.

The chemical resistance for FIS SB, FIS V, FIS VS, FIS HB, FIS VT, FIS VW can be taken out from the following table.

Chemical agent	Concentration weight-%	Resistant	Not resistant
Abb.:aqu. sol. = aqueous solution			
Abb.:susp.in w. = suspended in water			
Accumulator acid		●	
Acetic acid	conc.	●	
Acetic acid	10	●	
Acetone	100		●
Acetone	10		●
Ammonia, aqu. sol.	conc.	●	
Aniline	100		●
Beer		●	
Benzene	100		●
Boric acid, aqu. sol.		●	
Calcium carbonate, susp.in w.	alle	●	
Calcium chloride, susp. in w.		●	
Calcium hydroxide, susp.in w.		●	
Carbon tetrachloride	100		●
Caustic soda solution	50		●
Caustic soda solution	40	●	
Caustic soda solution	20	●	
Caustic soda solution	10	●	
Citric acid	all	●	
Diesel oil	100	●	
Ethyl alcohol	96	●	
Ethyl alcohol, aqu. sol.	50	●	
Formaldehyde, aqu.sol.	30	●	
Formic acid	100	●	
Formic acid	10	●	
Freon		●	
Fuel oil		●	
Glycerin		●	
Glycol (Ethylene Glycol)		●	
Hydrochloric acid	conc.		●
Hydrochloric acid	20	●	
Hydrochloric acid	10	●	
Isopropyl alcohol	100	●	
Lactic acid	all	●	
Laitance		●	

Chemical agent Abb.:aqu. sol. = aqueous solution Abb.:susp.in w. = suspended in water	Concentration weight-%	Resistant	Not resistant
Laitance		●	
Linseed oil	100	●	
Lubricating oil	100		●
Magnesium chloride, aqu. sol.	alle	●	
Methanol	100		●
Motor oil (SAE 20 W-50)	100		●
Nitric acid	conc.	●	
Nitric acid	20	●	
Nitric acid	10	●	
Oleic acid	100	●	
Perchloroethylene	100		●
Petrol	100	●	
Phenol	100		●
Phenol, aqu. sol.	1	●	
Phosphoric acid	ca. 85	●	
Phosphoric acid	10	●	
Potasch lye	40	●	
Potasch lye	10	●	
Potassium carbonate, aqu. sol.	all	●	
Potassium chloride, aqu. sol.	all	●	
potassium hydroxide solution	40	●	
potassium hydroxide solution	10	●	
Potassium nitrate, aqu.sol.	all	●	
Sodium carbonate	all	●	
Sodium chloride, aqu. sol.	all	●	
Sodium phosphate, aqu. sol.	all	●	
Sulfuric acid	conc.		●
Sulfuric acid	30	●	
Sulfuric acid	10	●	
Tartaric acid	all	●	
Tetrachloroethylene	100		●
Toluene			●
Trichloroethylene	100		●
Turpentine	100	●	
Water glass (sodium silicate)	all	●	