Intek Adhesives Ltd

RTV Silicones to Bond Seal • Insulate Weatherproof

TYPICAL CHEMICAL RESISTANCE OF RTV SILICONE SEALANTS

This list does not pretend to be exhaustive but does give an indication of the typical resistance of RTVsilicone rubbers to various common chemicals, solvents, foodstuffs, etc
It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, and that the actual conditions of use are suitable as every job is different.

Key: R = No change after 7 days Blank = Not Recommended ND = No data on this chemical

	20°C	60°C	100°C
Acetaldehyde	R	R	R
Acetic Acid 10%	R	R	R
Acetic Acid (glacial & anhydrous)	R[1]	R	R
Acetic Anhydride	R	R	R
Acetone	R[1]	R	R
Other Keytones	R[1]	R	R
Acid Fumes	R[4]	R	R
Alcohols (mostly fatty)	R	R	R
Aliphatic Esters	R[3]	R	R
Alkyl Chlorides	R[2]	R	R
Alum	R	R	R
Aluminium Chloride	R	R	R
Ammonia (anhydrous)GAS OK	R	ND	ND
Ammonia (aqueous)	R	R	R
Ammonium Chloride	R	R	R
Amyl Acetate	R[2]	R	R
Aniline	R	R	R
Antimony Trichloride	R	R	R
Aqua Regia			
Aromatic Solvents	R[2]	R	R
Beer	R	R	R
Benzoic Acid	R	R	R
Boric Acid	R	R	R
Carbonic Acid	R	R	R

	20°C	60°C	100°C
Caustic Soda Potash	R	R	R
Chlorates of Na, K, Ba	R	R[3]	R
Chlorine (dry)	R	R	R
Chlorine (wet)	R	R	R
Chlorides of Na, K, Mg	R	R	R
Chloroacetic Acid	R	R	R
Chlorobenzene	R	R	
Chloroform	R[3]	R	
Chromic Acid 80%	R[5]	R	R
Citric Acid	R	R	R
Copper Salts (most)	R	R	R
Cresylic Acid	R[2]	R	R
Cyclohexane	R[2]	ND	ND
Detergents (synthetic)	R	R	R
Emulsifiers (all conc.)	R	R	R
Ether			
Fatty Acids >C6	R	R	R
Aerosols eg Freon	R[2,7]		
Fluorine (dry) (wet)			
Fluosilicic Acid	R	R	R
Formaldehyde (40%)	R	R	R
Formic Acid	R	ND	ND
Fruit Juices	R	R	R
Gelatine	R	R	R
Glycerine	R	R	R
Glycols	R	R	R

	20°C	60°C	100°C
Hydrobromic Acid (50%)			
Hydrochloric Acid 10%	R	R	R
Hydrochloric Acid (conc)	R[3]		
Hydroflouric Acid 40%			
Hydrofluoric Acid 75%			
Hydrogen Peroxide 30%	R	R	R
Hydrogen Peroxide 30-90%	R[3]	R	R
Hypochlorites	R	R	R
Latic Acid 100%	R	R	R
Lead Acetate	R	R[3]	R
Lime (CaO)	R	R	R
Maleic Acid	R	R	R
Meat Juices	R	R	R
Mercuric Chloride	R	R	R
Mercury	R	R	R
Milk and its products	R	R	R
Moist Air	R	R	R
Molasses	R	R	R
Naptha	R[2]	R	R
Napthalene	R[2]	R	R
Nickel Salts	R	R	R
Nitrates Na,K, NH_3	R	R	R
Nitric Acid 25%	R	R	R
Nitric Acid 50%	R[2]		
Nitric Acid 95% fuming	R[2]		
Oils (essential)	R[3]	R	R Oils
(mineral)	R[3]	R	R Oils
(veg & animal)	R	R	R
Paraffin Wax	R	R	R
Phenol	R	R	R
Phosphoric Acid 35%	R	R	R
Phosphoric Acid 50%	R[3]	R	R
Phosphoric Acid 95%	R[3]	R	R
Phosphorous Pentoxide	R	R	R
Phthalic Acid	R	R	R
Sea Water	R	R	R
Silicic Acid	R	R	R
Silicone Fluids	R[2,3]	R	R
Silver Nitrate	R	R	R
Sodium Carbonate	R	R	R
Sodium Peroxide	R	R	R
Sodium Sulphide	R	R	R
Stannic Chloride	R	R	R
Starch	R	R	R
Sugar, Syrups, Jams	R	R	R
Sulphates, Na,K,Mg,Co	R	R	R
Sulphites	R	R	R
Sulphur	R	R	R
Sulphur Dioxide (dry)	R	R	ND
Sulphur Dioxide (wet)	R	R	ND
Sulphur Trioxide	R	R	R
Sulphuric Acid 50%	R	R	R
Sulphuric Acid 95%			
Sulphuric Acid (Fuming)			
Sulphur Chlorides			
Tallow	R[3]	R	R
Tannic Acid 10%	R	R	R
Tartaric Acid 10%	R	R	R
	[6]	R	R
Yeast	R	R	R
Zinc Chloride	R	R	R

Explanatory notes at low temperatures may be taken to be true also of high temperatures unless otherwise stated.

1. Not fluorinated silicone rubbers
2. Fluorinated silicone rubbers only
3. Depending on the composition or specification of the material
4. Depending on the acid
5. Up to 50%
6. Hard, Soft or Distilled
7. Fair resistance


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