

Chemical Resistance of Acrylic Resin

The following shows the results of the chemical resistance tests for "Parapet®."

For chemicals with conditional approval, it is necessary to determine in advance whether they can be used by assessing whether their use complies with the specified conditions.

Category	Chemical / Medium	Rating Symbol
Acids	98% Sulfuric Acid	×
Acids	20% Sulfuric Acid	○
Acids	35% Hydrochloric Acid	△
Acids	10% Hydrochloric Acid	○
Acids	62% Nitric Acid	×
Acids	20% Nitric Acid	○
Acids	10% Phosphoric Acid	○
Acids	80% Formic Acid	×
Acids	≥99% Acetic Acid (Glacial Acetic Acid)	×
Acids	10% Acetic Acid	○
Acids	10% Lactic Acid	○
Acids	Citric Acid Aqueous Solution	○
Alkalis	28% Aqueous Ammonia	○
Alkalis	Saturated Caustic Soda Solution	○
Alkalis	Caustic Soda Solution	○
Alkalis	Sodium Carbonate Solution	○
Detergents, etc.	Shampoo	△
Detergents, etc.	Bleach Solution	△
Detergents, etc.	Undiluted Dishwashing Detergent, etc.	△
Petroleum Products	Petroleum Benzine	○
Petroleum Products	Kerosene	○
Petroleum Products	Gas Oil	○
Petroleum Products	Lubricating Oil	○
Petroleum Products	Diesel Fuel	○
Petroleum Products	Solvent Naphtha	○
Petroleum Products	Turpentine Oil	○
Petroleum Products	Heavy Fuel Oil	△
Petroleum Products	Gasoline	△
Petroleum Products	Engine Oil	△
Petroleum Products	Wax Remover	△
Furans	Furan	×
Furans	Tetrahydrofuran	×
Nitro Compounds	Nitromethane	×
Nitro Compounds	Nitroethane	×
Nitriles	Acetonitrile	×
Nitriles	Acrylonitrile	×
Amines	Ethylenediamine	○
Amines	Diethylamine	○
Amines	Dimethylformamide	×
Amines	Aniline	×
Aromatics / Hydrocarbons	n-Hexane	○
Aromatics / Hydrocarbons	n-Heptane	○
Aromatics / Hydrocarbons	n-Octane	○
Aromatics / Hydrocarbons	Liquid Paraffin	○
Aromatics / Hydrocarbons	Phenol	×
Aromatics / Hydrocarbons	Toluene	×
Aromatics / Hydrocarbons	Cyclohexane	×
Aromatics / Hydrocarbons	Benzene	×
Aromatics / Hydrocarbons	Nitrobenzene	×
Aromatics / Hydrocarbons	Xylene	×
Aromatics / Hydrocarbons	m-Cresol	×
Aromatics / Hydrocarbons	Alicyclic Hydrocarbons	×
Inorganic Salts	Saturated Sodium Chloride Solution	○
Inorganic Salts	Saturated Calcium Chloride Solution	○
Inorganic Salts	10% Sodium Chloride Solution	○
Inorganic Salts	10% Potassium Chromate Solution	○
Ketones	Cyclohexanone	△

○	No or negligible effect.
△	Slight effect; use with caution.
×	Significant effect; unsuitable for use.

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Ketones	Methyl Isobutyl Ketone	×
Ketones	Methyl Ethyl Ketone	×
Ketones	Acetone	×
Ethers / Esters	Dibutyl Phthalate	○
Ethers / Esters	Diethyl Ether	△
Ethers / Esters	Diocetyl Phthalate	△
Ethers / Esters	Methyl Ether	△
Ethers / Esters	Isopropyl Ether	△
Ethers / Esters	Ethyl Formate	×
Ethers / Esters	Methyl Acetate	×
Ethers / Esters	Propyl Acetate	×
Ethers / Esters	Amyl Acetate	×
Ethers / Esters	Cellosolve	×
Ethers / Esters	Methyl Methacrylate	×
Ethers / Esters	Methyl Acrylate	×
Ethers / Esters	Ethyl Acetate	×
Ethers / Esters	Butyl Acetate	×
Ethers / Esters	Propylene Oxide	×
Ethers / Esters	Dioxane	×
Alcohols	100% Methyl Alcohol	△
Alcohols	10% Methyl Alcohol	○
Alcohols	98% Ethyl Alcohol	△
Alcohols	50% Ethyl Alcohol	○
Alcohols	100% Isopropyl Alcohol	△
Alcohols	1% Isopropyl Alcohol	○
Alcohols	Butyl Alcohol	○
Alcohols	Furfuryl Alcohol	×
Alcohols	Benzyl Alcohol	×
Aldehydes	40% Formaldehyde	○
Aldehydes	Benzaldehyde	△
Aldehydes	Furfural	×
Aldehydes	Formaldehyde	×
Aldehydes	Acetaldehyde	×
Seasonings / Spices / Beverages	Cider	○
Seasonings / Spices / Beverages	Beer	○
Seasonings / Spices / Beverages	Fruit Juice	○
Seasonings / Spices / Beverages	Wine	○
Seasonings / Spices / Beverages	Vegetable Oil	○
Seasonings / Spices / Beverages	Animal Oil	○
Seasonings / Spices / Beverages	Soy Sauce	○
Seasonings / Spices / Beverages	Milk	○
Seasonings / Spices / Beverages	Sauce	○
Seasonings / Spices / Beverages	Vinegar	○
Seasonings / Spices / Beverages	Olive Oil	○
Seasonings / Spices / Beverages	Chili Oil	△
Packaging Materials, etc.	Insulating Tape	○
Packaging Materials, etc.	Packaging Tape	○
Packaging Materials, etc.	Gypsum	○
Packaging Materials, etc.	Cement	○
Halogenated Hydrocarbons, etc.	Carbon Tetrachloride	△
Halogenated Hydrocarbons, etc.	Chloroform	×
Halogenated Hydrocarbons, etc.	Dichloromethane	×
Halogenated Hydrocarbons, etc.	Ethylene Dichloride	×
Halogenated Hydrocarbons, etc.	Trichloroethylene	×
Halogenated Hydrocarbons, etc.	Chlorobenzene	×
Gases	Ammonia	○
Gases	City Gas	○

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Category	Chemical / Medium	Rating Symbol
Gases	Ozone	○
Gases	Oxygen	○
Gases	Nitrogen	○
Gases	Carbon Dioxide	○
Gases	Chlorine Gas	△
Paints	Water-Based Paint	○
Paints	Oil-Based Paint	○
Paints	Lacquer	×
Others	Seawater	○
Others	Diethylene Glycol	○
Others	Glycerin	○
Others	30% Hydrogen Peroxide Solution	○
Others	Ethylene Glycol	△
Others	Hair Styling Product	△
Others	Insecticide	△
Others	Carbon Disulfide	×