

Acrylic Compatibility for Select Refractors, Reflectors and Sockets

Chemicals may be in use at end-user facilities that adversely affect acrylic materials used in light fixtures. These contaminants, when in an airborne state, can impact the safety and integrity of fixture components. Fixture damage may occur as cracking, permeation, crazing and general mechanical failure, and should be immediately replaced with luminaires more suitable to the application.

Crescent/Stonco has developed a table of the most common chemicals used in commercial and industrial applications. While this list is not all-inclusive, Crescent/Stonco products with acrylic components should not be used in areas where NON COMPLIANT chemicals may become airborne vapors or mists. Exposure to these compounds identified as NON COMPLIANT will void all warranties associated with the product. Always be sure that chemical interactions are taken into consideration when selecting lighting fixtures, and contact an authorized factory representative for more information.

NON-COMPLIANT CHEMICALS

Acetaldehyde, 100%	Coffee	Methylamine
Acetates	Cosmoline Removers	Methylene Dichloride
Acetic Acid, Glacial, 100%	Cresol	Mineral Oil
Acetic Anhydride	Cyclohexane	Motor Fuel Mixture, with Benzene
Acetone	Cyclohexanone	Nail Polish
Acetonitrile	Cyclohexene	Naphtha
Acetophenone	Detergent Solution	N-Butyric Acid, 100%
Acrylic Paints	Diacetone Alcohol	Nitric Acid, 40%
Alcohol, Allyl	Diamyl Phthalate	Nitric Acid, 70%
Alcohol, Amyl	Dibutyl Sebacate	Nitrobenzene
Alcohol, Benzyl	Diethyl Ether	N-Octane
Alcohol, Ethyl, 100%	Dimethyl Formamide	Paint Removers
Alcohol, Ethyl, 50%	Diocetyl Sebacate	Paint Thinner
Alcohol, Isopropyl, 100%	Dioxane	Perchloroethylene
Alcohol, Methyl, 10%	Ether	Petroleum Ether (100-120C)
Alcohol, Methyl, 100%	Ethyl Acetate	Phenois
Alcohol, Methyl, 50%	Ethyl Alcohol, Concentrated	Phenol, Aqueous, 5%
Alcohol, N-Butyl	Ethyl Bromide	Phosphoric Acid, 95% @ 20C
Amyl Acetate	Ethyl Butyrate	Phthalates
Aniline	Ethylene Bromide	Pyridine
Aviation Fuel (100 Octane)	Ethylene Dibromide	Soap Solution
Bathroom Cleaners	Ethylene Oxide (Moist)	Sodium Carbonate, 2%
Benzaldehyde	Glass Cleaners	Sodium Carbonate, 20%
Benzene	Glycol	Sodium Phosphate
Benzoic Aldehyde	Hydrogen Peroxide, 28%	Sulfur Dioxide, Liquid
Brake Fluid	Hydrogen Peroxide, 3%	Sulfuric Acid, 98%
Bromine Gas	Iron Perchloride	Sulfurous Acid, Concentrated
Butanol	Isoctane	Tea
Butraldehyde	Isopropyl Alcohol	Tincture of Iodine, 5%
Butyl Acetyl Ricinoleate	Lacquer Thinner	Toluene
Butyl Stearate	Lactic Acid Butyl Ester	Transformer Oil
Carbolic Acid	Mercury Chloride	Trichloroethane
Carbon Disulfide	Meta-Cresol	Trichloroacetic Acid
Carbon Disulfide	Methanol, 15%	Trichloroethylene
Cellulose Paints	Methanol, Concentrated	Turpentine
Chlorinated Hydrocarbons	Methyl Benzoate	Unleaded Gasoline
Chlorinated Solvents	Methyl Chloride	Vegetable Oil
Chlorine Gas	Methyl Cyclohexanol	Xylene
Chlorophenol	Methyl Ethyl Ketone	
Chromic Acid, 40%	Methyl Naphthalene	
Cloves	Methyl Salicylate	

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COMPLIANT CHEMICALS

2-Ethylhexyl Sebacate	Heptane	Potassium Hydroxide @ 20C
Acetic Acid 5%	Hexane	Potassium Permanganate
Ammonia-based Cleaners	Hydrochloric Acid, 38%	Potassium Sulfite
Ammonia Gas	Kerosene	Power Steering Fluid
Ammonium Hydroxide, 28%	Lactic Acid	Propylene
Ammonium Nitrate	Metal Carbonates	Pure-oil Paints
Ammonium Phosphate	Metal Chlorides	Silicone Oil
Aniseed, Bay Leaves, Nutmeg	Metal Sulfates	Silver Nitrate
Anti-freeze	Methane Gas	Soap Suds
Beer	Milk	Soda
Bleaching Power Paste	Milk, Chocolate	Sodium Chloride, 10%
Bleaching Powder Solution, 2%	Motor Fuel Mixture, without	Sodium Cyanide
Calcium Hypochlorite	Benzene	Sodium Fluoride
Car Wash Detergent	Motor Oil	Sodium Hydroxide, 60%
Carbon Dioxide Gas	Natural Gas	Sodium Nitrate
Carbon Monoxide Gas	Nitric Acid, 10%	Sodium Thiosulphate, 40%
Caustic Potash	Nitrogen Dioxide Gas	Stearic Acid
Chlorine Based Cleaners	Nitrogen Monoxide Gas	Sulfur Dioxide, Dry Gas
Chlorine, Aqueous, 2%	Olefric Carbolic Acids	Sulfuric Acid, 30%
Citric Acid, 10%	Oleic Acid	Sulfurous Acid, 5%
Coffee	Olive Oil	Tararic Acid, 50%
Cooking Oil	Oxalic Acid, 100%	Transmission Fluid
Cottonseed Oil	Oxygen Gas	Tricresyl Phosphate
Diethylene Glycol	Ozone Gas	Triethyl Amine
Epoxy Adhesives	Paraffin, Medicinal	Vinegar
Ethyl Alcohol, 15%	Pepper, Cinnamon, Onions	Water, Mineral Water
Ethylene Glycol E	Phosphoric Acid, 10% @ 20C	Wax Polish
Ethylene Oxide (Dry)	Photographic Baths	White Spirit
Ferric Chloride, Aqueous, 10%	Polishing Compounds	Whitewash
Formaldehyde, Aqueous, 40%	Potassium Chlorate	Wine
Fruit Juice	Potassium Cyanide	
Glycerol	Potassium Dichromate, 10%	

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