

TECHNICAL INFORMATION

ACRYLITE® Soundstop Chemical Resistance Information

Transparent Noise Barriers

Introduction

The table below gives an indication of the chemical resistance of ACRYLITE® Soundstop XT noise barrier panels and ACRYLITE® Soundstop GS and GS CC noise barrier panels. Plastic materials can be attacked by chemicals in several ways. The methods of fabrication and/or conditions of exposure of ACRYLITE® Soundstop, as well as the manner in which the chemicals are applied, can influence the final results even for “R” coded chemicals. Some of these factors include:

Fabrication – stress generated while sawing, sanding, machining, drilling, and/or forming.

Exposure – length of exposure, stresses induced during the life of the product due to various loads, changes in temperatures, etc.

Application of Chemicals – by contact, rubbing, wiping, spraying, etc.

This table should be used as only a general guide and, in case of doubt, it should be supplemented by tests made under actual working conditions.

The codes used to describe chemical resistance are:

R = Resistant

ACRYLITE® Soundstop noise barrier panels withstand this substance for long periods and at temperatures up to 120°F (49°C).

LR = Limited Resistance

ACRYLITE® Soundstop noise barrier panels resist the action of this substance for short periods at room temperatures. The resistance for a particular application must be determined.

N = Not Resistant

ACRYLITE® Soundstop noise barrier panels are not resistant to this substance. It is swelled, attacked, dissolved or damaged in some manner.

Chemical	Code	Chemical	Code
Acetone	N	Heptane	R
Ammonium Chloride	R	Hexane	R
Ammonium Hydroxide (Concentrated)	R	Hydrochloric Acid	R
Aromatic Based Graffiti Removers	N	Ice Ban® Ultra™ M	R
Battery Acid	R	Isopropyl Alcohol	LR
Benzene	N	Kerosene	R
Butyl Acetate	N	Lacquer Thinner	N
Calcium Chloride (100%)	R	Magnesium Chloride	R
Calcium Hypochlorite	R	Methyl Alcohol (30%)	LR
Calcium / Magnesium Acetate	R	Methyl Alcohol (100%)	N
Citric acid (20%)	R	Methyl Ethyl Ketone (MEK)	N
CMAK (Potassium Acetate/Calcium Magnesium acetate)	R	Methylene Chloride	N
Diesel Oil	R	Potassium Acetate	R
Ethyl Alcohol (30%)	LR	Sodium Acetate	R
Ethyl Alcohol (95%)	N	Sulphuric Acid (3%)	R
Ethylene Glycol	R	Sulphuric Acid (30%)	R
Gasoline	LR	Sulphuric Acid (Concentrated)	N
		Toluene	N

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