

ACRYLITE® Soundstop

Handling and Maintenance

This brief gives advice for:

- Storage
- Removing Masking
- Cleaning
- Removing Scratches
- Graffiti Removal
- Equipment and Materials Suppliers

For help or questions regarding maintenance of ACRYLITE® Soundstop noise barrier panels please contact Evonik at soundstop-us@evonik.com

Storage

ACRYLITE® Soundstop noise barrier panels are shipped on pallets packaged in polyethylene film overwrap that protects the sheet from dirt and moisture. The overwrap should be left intact during storage to protect the panels. Pallets may be stacked to maximize storage space. If various sizes are stacked horizontally, place larger panels at the bottom to avoid unsupported overhang.

ACRYLITE® Soundstop noise barrier panels are supplied with a protective polyethylene masking on both surfaces. Masked panels must **NOT** be stored in direct sunlight for prolonged periods of time. Prolonged exposure to direct sunlight may make the masking brittle which can cause the masking to tear upon removal.

ACRYLITE® Soundstop noise barrier panels should not be stored near radiators, steam pipes, or other heat sources, as exposure to excessive heat may soften and deform the panels. Do not store panels near or expose them to solvent vapors that

may penetrate the masking and damage the panels' surface.

Removing Masking

The panel masking should be left in place during most fabrication and installation operations to protect the panel surface. During installation roll back masking from the edge to avoid engagement in glazing channels. To remove stubborn masking use only plastic putty knives / scrapers while being careful not to mar the panels surface.

Cleaning

As a result of the production process, ACRYLITE® Soundstop noise barrier panels have a smooth, non-porous surface that is retained even after long-term outdoor exposure. Dirt will not readily adhere to this polished surface, as a result, rain or dew that frequently forms at night, will rinse the sheet clean.

In most cases, ACRYLITE® Soundstop noise barrier panels need no additional cleaning. Should special circumstances make it desirable to clean the panels, cleaning is best accomplished with water using a high-pressure washer.

Grease, oil or tar may be removed with a good grade of hexane, aliphatic naphtha, or kerosene. These solvents may be obtained at a paint or hardware store and should be used in accordance with manufacturer's recommendations.

WARNING

DO NOT USE: window cleaning sprays, kitchen scouring compounds or solvents such as acetone,

gasoline, benzene, alcohol, carbon tetrachloride, or lacquer thinner. These can permanently damage the panel's surface and/or weaken the panel causing small surface cracks called, "crazing".

Removing Scratches

Fine scratches can be removed by hand polishing. Apply a plastic scratch remover such as Novus 2 to a soft flannel pad and rub in a circular motion. When the scratches have disappeared, remove all residue and polish. For deeper scratches, first wet sand lightly with 400 grit "wet or dry" sandpaper, using plenty of water and rinsing the sandpaper frequently. Repeat with 600 grit "wet or dry" then 800 grit "wet of dry" sandpaper then buff with a clean cotton or flannel covering on a rotary buffer and a good automotive grade rubbing compound.

Graffiti Removal

Graffiti can be removed from ACRYLITE® Soundstop noise barrier panels using a graffiti remover recommended by Evonik. Although there are many graffiti removers deemed safe by the manufacturer for use on plastics, plastics is a general term and the majority of these removers contain aggressive solvents that can damage ACRYLITE® Soundstop noise barrier panels.

Updated graffiti remover product recommendations and the associated removal procedure are listed online at www.acrylitesoundstop.com.

Though procedures may vary by product, basic steps to remove graffiti are as follows: Spray the remover on the surface to be cleaned. Allow the remover to soak for 1 to 5 minutes, and rinse off with a high-pressure water spray or wipe away with soft (non-abrasive) towels. Note that while pressure washing is the fastest removal method it may not be allowed in all jurisdictions as the removed paint enters into the environment. In some cases, such as when the temperature is below 55°F, a second application or agitation of the graffiti with a clean soft cloth may be required to remove all of the graffiti.

Below are pictures of ACRYLITE® Soundstop noise barrier panels that were defaced or "tagged" with a solvent-based acrylic modified resin spray paint and then cleaned with Disappear Organic Graffiti / Adhesive Remover. For this test, the remover was sprayed on the graffiti and allowed to soak for 5 minutes prior to spraying with a 2300-psi pressure wash. The paint was allowed to cure 25 days prior to removal.



1. Start of Test



2. 5 minutes after Remover is Applied



3. Close-up of Graffiti



4. After Water Rinse with 2300-psi Pressure-Wash

Equipment and Materials Suppliers

The suppliers listed below offer materials and equipment suitable for use with ACRYLITE® Soundstop noise barrier panels

Graffiti Removers

Disappear Organic Graffiti / Adhesive Remover™

New Dimensions Solutions, LLC
3690 Howard Hughes Pkwy, Ste 500
Las Vegas, NV 89169
www.ndclean.com

So Safe (Yellow) Graffiti Remover

SoSafe USA
1061 N Shepard Street
Anaheim, CA 92806
www.sosafeusa.com

Anti-Static Cleaners and Polishes

AC1010 Acrylic Cleaner

Evonik Industries
299 Jefferson Road
Parsippany, NY 07054
800-929-8000
<http://www.acrylite-shop.com/>

20/20 Plastic-Cleaner

Craftics, Inc.
2701 N. Pulaski
Chicago, IL 60639
773-235-3307

Novus Plastic Polish – Cleaner (#1), Fine Scratch Remover (#2), & Heavy Scratch Remover (#3)
Novus Plastic Polish (Company)
Savage, MN 55378
800-548-6872
www.novuspolish.com

Rubbing Compounds

Premium Grade (T415) Rubbing Compound

Turtle Wax Inc
<http://www.turtlewax.com/product-detail.aspx?prodid=76>

Wet/Dry Sandpaper

Craftsman's Choice Wet/Dry Sanding Discs

Regent Stone Products
800-624-8210
https://www.regentstoneproducts.com/item_detail2.aspx?ItemCode=CCVELCRPAPER

Silicon Carbide (Wet/Dry) Sanding Discs

Kasco Abrasives
Coldwater, Michigan
800-367-7291
<http://abrasives4sale.com/h&L-disc-sc.html>

Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

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