



FRP CLEANSEAM™ OWNER'S MAINTENANCE AND REPAIR GUIDE

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Introduction

The FRP CleanSeam insulated panel is designed to create a virtually seamless joint between walls panels to prevent water intrusion and bacterial growth. The FRP (Fiber Reinforced Plastic) facing is a composite material made of a plastic polymer reinforced with fiberglass. The CleanSeam facing is a 0.075 thick Class A material chemically bonded to the steel face. The FRP face is bonded between panels and polymer trims using a two component sealant. The material is resistant to impact, high pressure, hot water and many chemicals, but there are limitations. The CleanSeam system when installed correctly, will perform well with regular common sanitation processes. FRP panels can with-stand repeated cleanings without adverse effect.

The owner is responsible for maintenance of the CleanSeam system. The selection of chemicals, application process and frequency is the responsibility of the owner. This document is to provide guidance on sanitation and minor repairs.

Cleaning

Never use abrasive materials to clean the panel surface. If mechanical means are necessary use a sponge or soft bristle brush. Wire brushes or other abrasive tools will scratch the surface. Maximum water pressure 2,100 psi with minimum 25° width spray nozzle used no closer than 12" from the panel face. Maximum water temperatures for sanitation 130°F.

Recommended solvents: 5% to 10% trisodium phosphate water solution, 5% to 10% solution of household automatic dishwasher detergent, and solvents with a PH range 6.5-7.5 is preferred. In all cases follow the manufacturer's directions.

Care should be taken when using solvents containing chlorinated or aromatic hydrocarbons or any solvent with a high or low PH.

Removing oil residues or difficult substances: use mineral spirits applied with a clean cloth.

Always rinse thoroughly to remove all traces of the cleaner.

Always test a small area before applying over the entire surface.

If the panel surface becomes dull or abraded, complete cleaning may not be possible.

Product Maintenance and Limitations

Operating temperate -40°F to 130°F

Max humidity 100%

Common Sanitizing Cleaners

Always rinse thoroughly to remove all traces of the cleaner; otherwise a film will build up giving the panel a dull, dirty appearance.

Always test a small area before applying over the entire surface.

Rating Key

E (Excellent): Suitable for use in most exposure conditions.

G (Good): Probably suitable for use; testing under specific exposure conditions is suggested.

F (Fair): Possibly unsuitable for use; testing under specific exposure conditions is recommended.

P (Poor): Unsuitable for use in most exposure conditions.

PRODUCT	MANUFACTURER	RATING		COMMENTS
		FRP	SEAM SEALANT	
CLOROX REGULAR-BLEACH	THE CLOROX COMPANY	E	E	
CIDECON	DECON LABORATORIES INC.	E	E	
HDQ NEUTRAL	SPARTAN CHEMICAL COMPANY, INC.	E	E	
LOPHENE ST	DECON LABORATORIES INC.	E	G	
LYSOL IC	RECKITT BENCKISER	E	E	
SEPITHOL STERILE	STERIS CORPORATION	E	E	
SPOR-KLENZ READY FOR USE	STERIS CORPORATION	E	G	No issue up to 24-hr exposure. Possible discoloration with sealant only after extended exposure.
PERIDOX RTU	BIOMED PROTECT, LLC	E	E	
PROCESS VESPHENE LIST	STERIS CORPORATION	E	F	Minor yellowing observed with sealant at 24-hr exposure. No issue up to 3-hr exposure.
PROCESS LPHST	STERIS CORPORATION	E	F	Minor yellowing observed with sealant at 24-hr exposure. No issue up to 3-hr exposure.
14 ANTIBACTERIAL ALL-PURPOSE CLEANER	ECOLAB	E	E	

Chemical Resistance to Common Chemicals

Rating Key

E (Excellent): Suitable for use in most exposure conditions.

G (Good): Probably suitable for use; testing under specific exposure conditions is suggested.

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P (Poor): Unsuitable for use in most exposure conditions.

CHEMICAL	RATING		COMMENTS
	FRP	SEAM SEALANT	
ACETONE	E	E	
AMMONIUM HYDROXIDE, 25%	E	E	
BENZENE	E	NT	
BUTYL ACETATE	E	NT	
DEITHYL ETHER	E	NT	
DISTILLED WATER	E	E	
ETHYLALCOHOL, 100%	E	E	
FORMALDEHYDE, 37%	E	NT	
HYDROCHLORIC ACID, 5%	E	E	
HYDROGEN PEROXIDE, 3%	NT	E	
HYDROGEN PEROXIDE, 30%	E	NT	
ISOPROPANEL, 70%	E	E	
PERACETIC ACID, 1%	E	NT	
SOAP SOLUTION	NT	E	
SODIUM HYDROXIDE, SOLUTION, 20%	F	E	Panel had no issue up to 3-hour exposure.
SULFURIC ACID, 5%	E	E	

Test was performed per ISO 2812-1 at room temperature.

Seam Sealant was cured for 24 hours at room temperature prior to testing.

Samples were immersed in a variety of chemicals for 24 hours and inspected at 1, 3 and 24 hours.

Ratings are based on visual observations. Performance ratings are not necessarily valid outside of the temperature range and exposure time tested.

CleanSeam Field Repair Procedure

Step	Description & Notes	Example
1	Identify the affected seam & clearly indicate the extent to where adhesion is lost (red arrows used to demonstrate the compromised region in this example)	
2	Remove the compromised line using manual snips or similar. An initial cut may be necessary to separate the continuous line of unadhered seam sealant. Be sure that removal does not further debond the sealant from the FRP-to-PVC interface. A curved-tip scratch awl has been used here to provide a hinge point and to assist in lightly bending the rigid-cured sealant line.	
3	Using a small, single-cut hand file with at least 40 teeth per inch, gently remove any potential prick points after the compromised sealant line has been excised. An appropriately-sized file length and a steady, smooth motion will help to limit unnecessary abrasion to the surrounding FRP.	
4	Ensure that the surface has been cleared of any dust or debris from hand-filing, and prepare the surface using a clean, cotton or linen cloth and a 1:1 dilution of 91% isopropyl alcohol with room temperature tap water. Allow the surface to air dry. Employ blue painter's tape about the affected region and extend approximately 6" beyond the existing sealant line.	
5	Place a replacement bead of Crane Composites Polyurethane Seam Sealant, extending 1" beyond the extent of the affected region. Smooth and tool into the gap using a plastic finishing tool or similar, and ensure continuity with the existing, unaffected seam. A plastic tool with a 1/4"-radius edge was employed in this example.	
6	Remove blue painter's tape within three minutes of final tooling. Gently pull at 45° relative to normal to minimize potential tape tearing and promote a clean removal, adjacent to the replacement sealant line. After the line has dried, clear any excess residue with the same mixture used in Step 4.	

TrueCore: All-In-One Performance
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