

Clean & Durable
SURFACE SYSTEMS



case study

Long-Term

cost savings

SOLVING PHARMACEUTICAL CHALLENGES



Guardian Drug Company in Dayton, NJ | Installed in January, 2015

Headquartered in Dayton, New Jersey, Guardian Drug Company is one of the nation's largest manufacturers of over-the-counter (OTC) pharmaceuticals. Guardian Drug Company's customers include the nation's leading drug store chains, mass merchandisers, supermarket chains, wholesalers and distributors.

The company required major construction over cinder-block walls for a cleanroom area consisting of four chambers totaling more than 10,000 sq. ft. The space was to be used for product formulation and packaging. General contractor for the project was Grad Industrial Works, Inc. of Sunnyside, New York.

CHALLENGE

Construct a suite of cleanrooms for pharmaceutical product formulation and packaging with the following features:

- Create smooth, easily cleanable surfaces in rooms with extensive piping, wiring and fixtures on walls and ceilings
- Cover cinder-block walls for a durable, seamless, non-porous and moisture-resistant finish
- Enable high reflectivity on surfaces for brighter workspaces
- Ensure regulatory compliance and high sterile standards with low maintenance

The existing structure presented two potential options for the cleanroom construction. Either frame the room with drywall and apply epoxy paint or utilize FRP panels. Given the extent of electrical boxes, piping and mounted equipment on the walls, labor costs would be excessive for drywall installation. Further, the painted drywall surfaces would require ongoing upkeep and maintenance.

"If permanent installations are in place on walls for cleanrooms construction, using FRP Glasbord is far easier to work around these fixtures. The FRP panels can be cut and sealed quickly and easily."

Gary Ostermueller, Branch Manager, Atlantech Distribution, Inc.



www.atlantech1.com | Edison, NJ



Glasbord Smooth | White | 85

PRODUCT SPECS

AVAILABLE SIZES
4' x 8' | 4' x 10'

THICKNESS
0.075"

FIRE RATINGS
Class A or Class C | per ASTM E-84



SOLUTION

Guardian Drug Company worked closely with local distributor Atlantech in Edison, NJ, who provided hands-on service and support to select smooth Glasbord® FRP with Surfaseal®, combined with Crane's Advanced Polymer Adhesive and its Seam Sealant. It was the perfect cleanroom system to work around the challenges of numerous fixtures mounted on cinder-block walls.

“After meeting the Crane Composites team and viewing the outstanding performance characteristics of Glasbord FRP with Surfaseal firsthand at the INTERPHEX (International Pharmaceutical Expo) last year, we knew this cleanroom construction system would be a cost-effective, ideal solution for our needs.”
Pankaj Shah, Plant Engineer, Guardian Drug Company

The choice for Crane Composites came down to these main factors that worked in favor of both the installer and the end-user:

- Proven Product Performance and Adaptability
- Immediate and Long-Term Cost Savings
- Customer Support and Service

PROVEN PRODUCT PERFORMANCE AND ADAPTABILITY

The Glasbord with Surfaseal anti-microbial finish provided a smooth, non-porous surface that is resistant to dirt and extremely easy to clean. The Advanced Polymer adhesive was integral to project success. Its ability to bond to any surface meant that the FRP could be applied directly over the cinder-block walls.



Specifically designed for seamless performance in cleanroom applications, Crane Seam Sealant is a fast-curing extremely low VOC urethane sealant. The Seam Sealant bonds with Glasbord to create a monolithic surface for trim-free, superior cleanability. The resulting surface created a strong and durable barrier to detrimental environmental conditions.

IMMEDIATE AND LONG-TERM COST SAVINGS

“Without the Crane Composites FRP Cleanroom System, labor for construction on the project would have likely been double the cost. The Advanced Polymer Adhesive for use with cinder-block walls – coupled with the ease in custom cutting the FRP panels to fit – delivered tremendous time and cost savings.”
Vladimir Z. Grad, President and Owner, Grad Industrial Works, Inc.

Unlike epoxy paint options, the Crane Composites cleanroom system creates a surface that requires virtually no ongoing upkeep, saving building owners significant maintenance costs over time. The surface is so durable that it can be cleaned easily, even with pressure washing. The highly reflective surface maximizes lighting in the room for brighter workspaces at lower costs.





CLEANROOM WALL PANELS

Features Glasbord panel with a smooth or embossed finish. The Glasbord panels are available with a Class A or Class C fire rating per ASTM E-84. The cleanroom certified FRP wall panels are completed with the use of chemically tested seam sealant for wall panel applications and trim-free seams.

Further, the system can create cleanrooms that are certifiable and compliant with increasingly stringent regulations, saving the risk of high-cost fines for noncompliance. Should it ever become necessary, panels can be replaced at a fraction of the costs of other alternatives.

CUSTOMER SERVICE AND SUPPORT

Because Glasbord FRP panels, and all Crane products, are produced at manufacturing facilities locally in the USA, materials are delivered quickly and efficiently through a national network of highly knowledgeable distributors.

The Crane Composites team is constantly working with distributors, architects, contractors and end-users to offer hands-on support and training, with product knowledge and industry best-practices.

“The quality of Crane Composites FRP products speak for themselves. They are some of the best materials we’ve encountered in construction. But Crane adds even greater value by providing us with product and industry insights that help make our business more successful.”

Vladimir Z. Grad, President and Owner, Grad Industrial Works, Inc.

BENEFITS

- Adaptability of FRP panels to be cut, fit and sealed around complex fixtures and wall mounts
- Ease of panel installation directly on any surface using Advanced Polymer
- Proven material properties and sealant that ensures no maintenance
- Glasbord Surfaseal panels deliver extra-long life and performance
- Superior cleanability, even using pressure-washing
- Highly reflective smooth surface helps lower lighting costs
- Documented extremely low VOC components
- Significant immediate and long-term cost savings
- Reduced installation complexity versus PVC and epoxy systems.

“We are continuously evolving and adapting to new technologies, processes and innovations, looking for ways to improve and enhance our quality products. Our goal is to be the very best in what we offer, and the quality of the Crane Composites cleanroom system reflects our company high-standards.”

Pankaj Shah, Plant Engineer, Guardian Drug Company

FOR MORE INFORMATION, VISIT
CLEANROOMWALLPANELS.COM



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Crane Composites is the manufacturer of Glasbord, Sequentia, Sanigrad II and a variety of other fiberglass reinforced plastic (FRP) composite wall panels. Inspired by the Kemlite tradition, Crane Composites has over 60 years of experience in Commercial Building Products and is a recognized industry leader in FRP applications.

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