



Composites

Clean & Durable
SURFACE SYSTEMS



case study

CLEANROOM | ELBRIDGE, NY

proven

performance

OUTSTANDING PRODUCT QUALITY



Tessy Plastics in New York, NY | Installed in November, 2014

One of Central New York's fastest growing companies, Tessy Plastics Corporation is an innovative firm that engineers and manufactures products ranging from everyday consumer items to sophisticated medical devices.

Tessy purchased a former factory in Central N.Y. that required a major renovation, including retrofit construction of a 23,000 sq. ft. permanent cleanroom. General contractor for the project was WSW Construction Corporation of Syracuse, NY.

CHALLENGE

Construct a certified cleanroom retrofit for medical product manufacturing with the following features:

- Custom 14' ceiling heights without horizontal seams
- Highly reflective and cleanable seamless surfaces
- Durable surfaces that resist damage from moisture, chemicals or cleaning agents
- Cost effective long-term performance and no maintenance

The 23,000 sq. ft. space featured 14' ceilings and wall substrates including plywood and drywall. The project plan called for FRP panels that would extend to the ceiling without horizontal seams. In addition to meeting cleanroom certification, Tessy wanted seamless wall and ceiling surfaces for minimal maintenance, long-term performance, and ease in cleaning.

“During the design stages, firms contemplating cleanrooms are also looking at the reflectivity factor and the color of the wall surface so as to save on room lighting costs when operational. During the construction stage, the installer is looking at the ease of installation and workability of the materials used.”

Ralph Kraft, President, R. Kraft, Inc., a leading cleanroom certifier and expert consultant

FRP panels were the top consideration for construction, based on known performance characteristics, installation ease and long-term cost-effectiveness. Other potential options considered, but rejected included: lower-cost epoxy paint and/or silicone sealants, which would require ongoing maintenance and installation complexity

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

Crane Composites was selected based on three key factors, according to Mike Adrian, Director of Maintenance, Tessa Plastics Corporation and John Mahar, Managing Partner, WSW Construction:

- Proven product quality, performance and installation ease
- High levels of personalized service and hands-on product support
- Ability for panel customization

“We knew that Glasbord with Surfaseal would be an ideal solution for this project. In addition, the service we received from Crane and its ability to customize the product added significant time and cost savings advantages to project outcomes.”
John Mahar, Managing Partner, WSW Construction.

OUTSTANDING PRODUCT PERFORMANCE

The solution for this cleanroom was Glasbord panel, combined with Crane Fast Grab adhesive and Crane Polyurethane Seam Sealant, all independently tested and certified for cleanroom applications.

Glasbord with Surfaseal anti-microbial finish ensures that the surface will not trap soil or bacteria. Glasbord panels meet USDA/FSIS requirements. The Fast Grab solvent-free adhesive is formulated for superior panel adherence on plywood and drywall substrates.

Crane Seam Sealant is a fast-curing extremely low VOC urethane sealant specifically designed for seamless performance in cleanroom applications. The two-part Seam Sealant bonds with Glasbord to create a monolithic surface for trim-free superior cleanability, low particle emission, biological and chemical resistance. The surface does not require maintenance and is particularly durable and resistant.

SERVICE AND SUPPORT

All materials needed for the Tessa Plastics project were readily available through Kamco Supply Corporation of New England, a member of Crane’s comprehensive nationwide network of distributors.



FRP is Installed with Ease



GREENGUARD CERTIFIED



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 biological and chemically tested adhesive and seam sealant for wall panel applications and trim-free seams.

In addition, Crane Composites conducted on-site training for the construction team to demonstrate best-practices for applying the Seam Sealant.

“We always appreciate the resources and responsive service we receive from Kamco Supply for Crane products. In this case, the Crane Composites product team also conducted hands-on sealant installation training. This exceptional support provided valuable education for our installers and helped save project labor time.”

John Mahar, Managing Partner, WSW Construction.

The contractor’s familiarity with Crane Composites products and support for all the Crane Composites Cleanroom System components enabled the project to be installed quickly, minimizing labor costs. Tessa will also realize long-term returns on its investment: The cleanroom is built for durability; ease in cleaning and will remain virtually maintenance free for years to come. Additionally, the high surface reflectivity will help lower lighting costs over time.

CUSTOMIZATION

For this project, the Crane Composites team was able to address the 14’ ceiling height and request for no horizontal seams by quickly supplying custom sized FRP panels. Glasbord FRP panels and all Crane Composites products, are produced at manufacturing facilities locally in the USA, so custom panels can be delivered on short-notice and cost-effectively.

BENEFITS

- Ease of FRP installation for labor cost savings
- Glasbord meet USDA/FSIS requirements
- Proven material properties and sealant that ensures virtually no maintenance
- Seamless, monolithic wall panels do not produce or trap airborne particles
- Superior chemical and biological resistance validated by independent lab tests
- Smooth surface prevents buildup with superior cleanability
- Documented extremely low VOC components
- Significant cost savings in total installed cost versus alternative wall systems
- Reduced installation complexity versus PVC and epoxy systems

“The Crane Composites Cleanroom System meets our standards for top-quality construction by delivering minimal maintenance, seamless, reflective surfaces and ease in cleaning. This cleanroom is one representation of Tessa Plastics Corporation’s overall commitment to quality and innovation in every aspect of our business.”

Mike Adrian, Director of Maintenance, Tessa Plastics Corporation.

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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