

STONHARD *Solutions*

Putting the “STON” in Stonybrook

“Stonhard’s products are excellent and exceed several manufacturers’ specifications.”

*Director, Division of Laboratory
Animal Resources at Stonybrook*

The State University of New York at Stonybrook is home to two animal testing facilities. These areas are subject to physical abuse and staining from the animals, as well as daily high pressure washdowns and aggressive cleaning agents.

Several of the facilities’ past flooring systems, like vinyl tile, rolled linoleum and painted concrete, were destroyed. Damage was also evident in wall and ceiling units made of concrete block and precast concrete. Unfortunately, aggressive cleaning is a necessary evil to maintain the high sanitary standards needed to preserve the health of the facilities’ animals.

What Stonybrook needed was a uniform system that would provide long-lasting durability and resistance to staining and chemical attack. The clear choice for the job was Stonhard’s line of high quality epoxy-based floor and wall systems.

Stonhard prescribed Stonshield HRI, a 3/16” textured floor system consisting of a troweled epoxy/silica mortar and a colored quartz broadcast surface. This created a decorative, seamless floor that can withstand harsh physical conditions. Stonglaze VSC, a two-component, high solids, epoxy glaze coating was selected for the walls and ceilings for stain resistance, enhanced cleanability and aesthetics.

Wall and ceiling preparation required 90% removal of existing coatings due to extensive delamination that had occurred. This was done by sandblasting to ensure a strong bond by creating a sound, profiled substrate.

Any gouges, cracks or holes that appeared after sandblasting were patched with a two-component epoxy patching mortar, Stonset PM5. Then, Stonglaze VSC was roller applied in two separate 6-8 mil coats to achieve a 15 mil, tile-like finish.



Stonhard’s products are ideal for the harsh conditions found in Stonybrook’s animal cage wash areas.

Because of the poor state of the existing floor, extensive preparation was necessary. This was done using scarifiers, grinders and chipping hammers to remove all surface materials without further damaging the concrete substrate. Once exposed, the concrete was shot blasted to create a clean, porous surface.

In areas where the concrete was damaged, the substrate was patched with Stonhard’s epoxy grout, Stonset TG5. Cracks were also addressed using Stonhard’s RH5 crack treatment. This would ensure that any substrate movement would not crack the new epoxy overlayment.

Once patching and preparation were complete, Stonshield HRI Base was applied at 1/8 in. using a power trowel in open areas and a hand trowel in harder to reach spots.

Next, a two-component epoxy undercoat was applied, into which a multicolored quartz aggregate was uniformly broadcast. This produces the decorative appearance and non-slip finish of the Stonshield system.

To protect this epoxy undercoat, Stonshield Sealer was squeegee applied and back rolled to create a non-slip, yet cleanable, finish. After the sealer cured, all joints were cut and filled with Stonflex CJ4.

Accurate selection of high quality materials and close attention to detail in the installation resulted in a completely seamless floor and wall system that is both sanitary and durable, fulfilling the specialized needs of Stonybrook's animal testing facilities.

Stonhard installed 65,000 sq. ft. of floor materials and 30,000 sq. ft. of wall coatings in this initial project. Since then, an additional 25,000 sq. ft. of floors and 15,000 sq. ft. of walls were installed at Stonybrook by Stonhard crews.

Dr. Charles C. Middleton, Director of the Division of Laboratory Animal Resources, was so pleased with the quality of Stonhard's installation and customer service, he commented, "To my knowledge, Stonhard is the only company that manufactures the products and have their own application crews. Thus, from a guarantee standpoint, there is no passing the buck." Other companies with animal areas have also taken advantage of Stonhard's unique floor and wall products for a totally customized system that stands up to the harsh conditions found in such areas. These companies include:

- Pfizer
- Merck, Sharp & Dohme
- University of Washington
- The Seeing Eye Institute

In addition, any future projects at Stonybrook that require floor or wall systems are now calling exclusively for Stonhard.



Stonhard's products also provide an aesthetically pleasing environment in Stonybrook's animal facilities.

The Stonhard Difference

Stonhard is a world-leading manufacturer and installer of high-performance polymer floor, wall and lining systems designed for tough commercial and industrial environments requiring protection against corrosion, impact, abrasion and continuous daily wear. We deliver long-lasting, high-performance systems for tough environments. We offer customized solutions to satisfy the most demanding design specifications and work with you directly from start to finish. You are protected with a single source warranty on both products and workmanship. Known around the world for excellence, the Stonhard name means quality products and unmatched service.

STONHARD
single
source

- FORMULATING
- ENGINEERING
- SALES + SERVICE
- INSTALLATION
- PROJECT MANAGEMENT

For more information on Stonhard's high-performance polymer floor, wall and lining systems, visit us at www.stonhard.com or call toll free at 800/257-7953.

