

# STONHARD *Solutions*

## *Homogenous Metals – Clayville, NY*

*With 30 years of experience in metals technology, Homogeneous Metals, Inc. has developed unique, state of the art products and wanted a facility to match. When their floors began to deteriorate and show signs of movement and cracking, Stonhard provided a custom solution. A Stonclad system and waterproofing membrane delivered and aesthetically pleasing solution that afforded safety, durability and structural soundness.*

### **Stonhard Comes to the Rescue**

When Homogeneous Metals, Inc. (HMI) facility in Clayville, NY began operations 20 years ago, the existing building was in total disarray. It was abandoned, run down and did not even contain windows. Through the years, it has been transformed into a pristine state-of-the-art, modern showcase of technology and production. During the massive renovation, one major detail that required attention was the flooring. Stonhard installed a Stonclad system at another HMI facility over a decade ago and it is still in perfect condition. HMI credits Stonhard with being an integral part of maintaining this first class facility, so when an existing concrete floor recently began to exhibit signs of cracking, movement and hollow spots, they knew who to call.

HMI was in need of a new floor for their 14,500 square foot materials control area. They asked Stonhard to provide a safe, sound substrate able

to withstand heavy loads and heavy traffic. In addition, they desired an aesthetically pleasing system that was consistent with the rest of this modernized facility. Stonhard's solution was a Stonclad GS/GS4 system with Stonproof ME7 waterproofing.

### **Installation**

The installation began by utilizing a blastrac to prep the concrete substrate. Next, a layer of Stonproof ME7, a waterproofing membrane, was utilized. The decision to use ME7 went beyond its waterproofing capabilities and was used in this dry environment to control slight movement and prevent stress cracking of the Stonclad overlayment system. After the ME7 cured, a standard primer was used, followed by a layer of Stonclad GS.

Stonclad GS, a seamless mortar system, provided:

- Superior impact resistance
- Superior abrasion resistance
- Excellent chemical resistance

The Stonclad GS was allowed to cure and was then ground and vacuumed, followed by the application of Stonkote GS4.

Stonkote GS4, a two-component, 100% solids epoxy coating, provided:

- Increased abrasion resistance
- Increased chemical resistance
- Improved cleanability
- Highly aesthetic gloss finish



*Failing concrete was repaired and coated with a durable, chemically resistant epoxy system. The facility is now a safe and attractive working environment.*

After the GS4 was allowed sufficient cure time, Stonflex MP7 was poured into the joints. Stonflex MP7 is a urethane sealant that offers:

- Excellent joint movement capability
- Superior chemical resistance
- Excellent UV stability
- Rapid cure to reduce downtime

### **Proven Results**

Stonhard was able to deliver an efficient, cost-effective solution. Without the application of the mortar system, the cracking substrate would have eventually deteriorated to a more serious structural problem. To re-pour the slab would have been at a considerable cost, in addition to extended shut down time and significant loss of productivity. By installing a mortar system vs. a simple coating, Stonhard provided a durable system that resolved the failing substrate issues and eliminated on-going maintenance expenses.

HMI relied on Stonhard's superior product quality, durability, and aesthetics to meet their facility needs, and on our local territory manager to engineer and install a long-term solution on schedule and within budget. They were not disappointed!

Stonhard's commitment to quality products, service and customer satisfaction on every installation has proven a long-term value proposition for HMI.

### ***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's seamless system dramatically reduced on-going maintenance costs.*

**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](http://www.stonhard.com) or call toll free at 800/257-7953.*