

STONHARD Solutions

Praegitzer Industries Takes Charge of Static In PCB workstation, static control and aesthetics are primary concerns

In 1991, Praegitzer Industries purchased a Hewlett-Packard office building and turned it into a printed circuit board manufacturing plant. The 20,000 sq. ft. plant located in Dallas, Oregon is used as a showcase for future PCB contracts. When designing the facility, aesthetics were important and static control was a prime concern. Any static present at the workstations could destroy the printed circuit boards. The only solution was to completely eliminate the static electricity. To do this, the static would have to be stopped at its main source — the floor. Several different flooring systems were considered. In addition to providing static control, Praegitzer required a system that would be chemical resistant, durable and pleasing in appearance.

Stonhard's Stonlux ATM flooring system was chosen for the project. Stonlux ATM contains conductive elements to provide superior static control, and has a high degree of chemical resistance and durability. Praegitzer selected a Camel floor color to enhance and brighten the work environment. Stonhard installation crews installed the floor and on-site engineers were present throughout to supervise and perform electrical tests.

Praegitzer requested that a test installation be done in a 2,000 sq. ft. area before installing the entire system. This would allow them to see how the final product would look and perform. The test area was evaluated by Praegitzer and they found the results to be outstanding. The floor met their expectations for electrical resistance as well as aesthetics.

The first step of the installation was to remove the carpet covering the 20,000 sq. ft. area. The installation crew pulled up the carpet and discovered that the substrate beneath it was severely cracked and required extensive patching. To allow for quick turnaround and to ensure physical integrity, Stonclad GS was chosen for patching. Once patching was complete, the substrate was prepared using a shot blast machine to remove any laitance. One coat of insulating primer was then applied to seal the substrate. Next, a coat of conducting primer was applied to give an additional seal and provide an electrical base. When the primer was tack-free, the 1/8" overlayment was applied using a notched rake and spike roller. Stonlux ATM is a four-component, self-leveling epoxy formulation consisting of resin, curing agent, graded aggregates and conductive elements.

Upon completion of the installation, Stonhard presented Praegitzer with an engineering report detailing the resistance of each area of the floor.



At Praegitzer's PCB manufacturing plant in Dallas, Oregon, Stonhard's Stonlux ATM flooring system effectively controls static and provides an attractive work setting.

It has been over five years since the installation and Praegitzer is completely satisfied with the performance of the floor. Combined with proper ESD footwear, the floor is 100% effective in controlling static electricity.

The Stonhard Difference

Stonhard is a world-leading manufacturer and installer of high-performance polymer floor 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 product 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 and lining systems, visit us at www.stonhard.com or call toll free at 800/257-7953.

