

STONHARD *Solutions*

Milan Screw Products Tightens Their Flooring Standards

Products used at Milan Screw

- Stonclad UT

With 40 years of experience in the machining of finished metal parts, Milan Screw Products, of Milan, Michigan, has production down to a science. So, when they began planning for their new state-of-the-art manufacturing facility, they had a tight plan in mind, especially for the new building's floors.

In the process of turning steel bars into screw products, large quantities of oil are used to keep the cutting surface cool and free of metal shavings. This created pooling of oil on the concrete production area floor in Milan Screw Products' existing facility. This situation caused many troubling problems.

First, it opened the door to slip-and-fall conditions for factory workers. Secondly, it made for difficult clean-up of the floor, and finally and most importantly, it could eventually cause contamination of the substrate and underlying ground.

Milan Screw Products began researching different types of protective floor toppings to prevent these problems. After reviewing all of the alternatives, they narrowed the field down to three flooring solutions. The options that made it to this final cut were a mortar based flooring system from Stonhard, a 10 mil coating from Tennant and a 15 mil high build urethane from Freda.

Although Stonhard's system was the most expensive (by as much as five times), it was the preferred and selected solution. *Why?* Because the decision makers from Milan Screw Products visited nearby NSK Bearings



Stonhard's Stonclad PT sealed with Stonkote GS4 offers the chemical and abrasion resistance necessary in the harsh production area at Milan Screw Products.

in Ann Arbor, MI to take a look at their twelve year old Stonhard polymer floor. The Stonclad floor was performing remarkably well under very similar conditions. That was all the proof Milan Screw Products needed.

In fact, they were so impressed with the floor's performance that they wanted Stonhard products for every area in their new building. A high performance, 1/4" polymer system with superior impact, abrasion and chemical resistance was selected for the production areas. This formulation was able to be power troweled to cover large, open areas in a short time. The aisles were done in a different, but coordinating color to make them distinct. This system was further strengthened with the addition of a 100% solids chemical and abrasion resistant polymer coating. This coating also made the floor easier to clean.

For the offices, lunch room and restrooms in the building, a 3/16" textured, slip-resistant polymer

system was chosen in addition to a high solids polymer glaze coating for the walls in the restrooms.

Finally, the foyer was to be done in a decorative 3/16" multi-colored polymer floor with excellent wear, mar and ultraviolet resistance.

These high performance polymer systems were installed over a three month period. The floors went down in sections to accommodate the other tradesmen also working in the facility. Stonhard installed approximately 32,000 square feet of product, covering every surface possible.

After the first three months of operation, everyone was pleased with the flooring system's performance. The improved cleanability made for a safer workplace all around. But the "screws" were really put to the Stonclad floor in the production area when this system was inadvertently put through a rigorous test. A few weeks into operations, one of the overhead

cranes failed and dropped a 4,000 pound load of 16 foot solid steel bars on the floor. The bars came crashing down from a height of 20 feet and banged end to end before settling on the new floor.

The floor held up amazingly well to this potentially devastating mishap. In fact, the only after effects were a few minor depressions in the system which were easily repaired one Saturday.

Chuck Tellas, of Milan Screw Products who was in charge of the new construction project, is pleased that his instincts were correct and that his flooring choice was immediately proven to be a strong performer in a tough environment.

The Stonhard Difference

Stonhard is the unprecedented world leader in manufacturing and installing high performance polymer floor, wall and lining systems. Stonhard maintains 300 product engineers and 175 application crews worldwide who will work with you on design specifications, project management, final walk through and service after the sale.

And, Stonhard's single source warranty covers both products and installation.

