

STONHARD FLOOR SOLUTIONS

Noble – Automated Warehousing Solutions Concord, Ontario

AREA: WAREHOUSE



PRODUCTS USED:

- STONCLAD, STONKOTE GS4, STONSET TG5

When Noble needed a flat and level floor for an upcoming Automated Material Handling System installation, Stonhard was there to help.

Improving Operational Efficiency

Noble required an area of floor of approximately 5,400 square feet at their Concord branch to be within specific flatness and levelness tolerances to ensure the successful installation of an Automated Material Handling System designed to increase warehousing capacity and order turnaround speeds.

Old Floor Problem

An old floor installation in the chosen location for the new automated system meant that the first steps in the process of completing the equipment pad was demolition prior to the installation of the new Stonhard system.

Stonhard mobilized crews to site in late December 2021 to begin the demolition process. Once successfully removed, the newly exposed footprint for the equipment pad required a combination of surface grinding to remove any remaining contamination, followed by mechanical preparation to achieve a Concrete Surface Profile of CSP 3 to ensure that the new floor would be well bonded. As with all our installations, Stonhard's in-house surface preparation team completed this phase of the work, ensuring that the floor was ready for installation during the first week of January.

Surveying & Levelling

Initial survey work showed that the underlying concrete floor had significant depressions as deep as 32mm in some areas, which required bulk filling prior to the application of thinner, tough and durable wearing layers.

Stonhard's technical team, in conjunction with the installation crew, marked out a grid pattern on the floor and used surveying equipment to set levelling pegs to height for the Stonset Grout prior to bulk filling to level out any significant depressions in the floor. Stonset Grout offers a cost effective yet tough bulk filling material, which was critical in this instance due to the requirement to anchor equipment into the newly installed flooring system.

Continual Improvement

Once the bulk filling work was completed, areas that required less fill material or spot grinding were addressed, followed by a layer of Stonclad epoxy mortar which was power trowelled over the entire area to further aid with the smoothness of the installation. Stonclad epoxy mortars are designed to provide excellent impact and abrasion base layers for any installation.

Liquid Rich Layers Add Smoothness

Once the Stonclad installation was completed, the floor was surveyed once more and locally ground to remove areas outside the predetermined criteria provided by the equipment manufacturer; followed by a liquid rich flood coat to help smooth out the floor even further. A final topcoat of Stonkote GS4, a tough and durable epoxy coating, provided a scratch and abrasion resistant layer to complete the installation.

Final Survey

Once the floor had been completed, another survey on 1 meter centers was provided for final verification by the equipment manufacturer. Stonhard delivered the floor on time and budget, allowing the Automated Material Handling Equipment to be installed to plan.

In Stonhard's 100th year, we are happy to have helped Noble in their goal of "helping their customers' businesses succeed by delivering the products and services their customers need, when they need them".



THE STONHARD DIFFERENCE
 Stonhard is the unprecedented world leader in manufacturing and installing high-performance polymer floor, wall and lining systems. Stonhard maintains 300 Territory Managers and 175 application teams worldwide who will work with you on design specification, project management, final walk through and service after the sale. Stonhard's single-source warranty covers both products and installation.



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