Polywheels Manufacturing Ltd.

Oakville, Ontario

Epoxy Flooring

Problem

Polywheels Manufacturing Ltd. is one of North America's leading designers and molders of thermoset and thermoplastic reinforced composite products. The company supplies these products to a wide variety of markets including: transportation, medical, electrical, furniture, sporting goods, marine, construction, and consumer products.

Completed project

One 12,000 sq.ft. area of the plant is dedicated to the production of Sheet Molding Compound (SMC), a high strength / light weight, reinforced thermoset plastic material widely used in the production of automotive components. The floor and ceiling in this high profile area were in desperate need of rejuvenation. The floor, which had as many as three layers of coating applied at various stages in the building's history, was disbonding due to insufficient preparation and inter-coat bond failure. The ceiling was also peeling badly as a result of saponification, a reaction between the alkyd resin in the ceiling paint and the zinc surface of the galvanized metal decking. Polywheels was looking for a cost-effective solution that would improve the appearance of the area and offer long-term performance.

Solution

Inscan Specialty Contracting Services Division began by removing the existing floor coating, an integral step when applying a new coating where the existing floor covering is failing. The exposed concrete substrate could then be properly prepared by steel shotblasting to impart a surface profile for optimum bond strength. A high-performance, 100% solids epoxy coating was applied in two separate coats for a total dry film thickness of 16 mils.

Removal of the existing coating

Application of coating

Inscan also carried the contract to apply a Portland cement based multi-surface coating to the underside of the roof deck. The coating used has tenacious bonding capabilities and excellent light reflectivity to greatly enhance the brightness in the area.

Polywheels was extremely pleased with the quality of work and the fact that Inscan was able to complete the project within the relatively tight installation period available.

Inscan Contractors (Ontario) Inc.
Specialty Contracting Services Division
212 Wyecroft Rd., Unit 33, Oakville, ON L6K 3T9
Ph: (905) 842-5075 Fx: (905) 842-5895