

Resurfacing with Epoxy Mortar



International automotive extrusion supplier turns to MSC Floors

An international supplier of automotive extrusion stampings was looking for a heavy-duty flooring system for a 34,000 sqft manufacturing facility they purchased in Warren, MI. MSC Floors came up with an industry tested durable and seamless solution.

There was one of the most damaged concrete floors we had ever seen. The concrete was pitted, spalled, cracked, and extremely deteriorated. It was basically the equivalent of a gravel road, complete with crater-sized potholes.

By removing damaged sections, patching and deep filling problem areas, MSC Floors was able to give the customer a perfectly level work area that was stronger than the original - and at a price much lower than pouring new concrete. They were thrilled with the results.

Project Brief

- **The first major challenge was to remove over 27 yards of failed concrete** by jackhammering, shot blasting, scarifying, planning & carting out failing substrate, so we had a good foundation to work with.
- **11,200 pounds of aggregate were mixed with over 200 gallons of epoxy to deep fill patches and repair the surface.** This is an essential process because it is extremely tricky to patch, prime, and build mortar evenly throughout a substrate when it's severely pitted.
- **1,170 gallons of epoxy and over 97,500 lbs of aggregate** were mixed for the 3/8" epoxy mortar trowel-down system, with an additional grout coat and high build topcoat to achieve a smooth, glossy finish.



www.mscfloors.com

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Application Based Solutions

Heavy Duty Industrial Coatings

Manufacturing facilities require high performing systems that can withstand heavy traffic and are easy to maintain. Plant safety is realized with slip resistant coatings. Epoxy and urethane mortar systems provide the superior impact and abrasion resistance required in heavy manufacturing environments. Heavy wheeled vehicles and harsh chemicals will not damage these floor systems which are designed for the most extreme facilities.

Performance - superior impact resistance, abrasion resistant, stain and chemical resistant, slip resistant, seamless and easy to maintain

Applications - assembly lines, machine shops, aviation, military, tool and dye shops, industrial

Urethane Concrete Mortar

Designed for the food and beverage industry, this system provides premium protection in wet environments. Urethane concrete mortars have superior resistance to staining from exposure to organic acids, solvents, and chemicals. With thermal shock protection up to 220°F, these systems are perfect in areas experiencing frequent hot water wash downs and thermal cycling.

Performance - quick-cures in hours, NOT days; chemical, acids, & solvent resistance; designed for wet environments; stain, impact, and abrasion resistance.

Applications - food and beverage, meat processing, breweries and wineries, bottling & packaging facilities

Epoxy & Urethane Coating Systems

Manufacturing and industrial facilities require floors able to withstand extreme environments. Chemical exposure and heavy loads quickly damage the wrong floor system. Expert knowledge of industrial environments and flooring conditions is key to a successful floor project. Michigan Specialty coating engineers custom solutions to deliver the right systems that provide a long service life and return on investment.

Performance - chemical resistance, impact resistance, abrasion resistant, slip and fall prevention, seamless, easy to maintain, heavy load capacity

Applications - industrial, manufacturing, production lines, assembly lines, vehicle traffic

Joint Treatment and Filler

Damaged joints create safety hazards. Seasonal movement and stress from heavy traffic can threaten the integrity of the joints. Joint treatments will ensure a safe and environmentally healthy floor. Flexible, semi-rigid, and rigid joint fillers and sealers are available to provide durable joint solutions.

Performance - moisture resistant, chemical resistant, extreme temperature tolerance, custom color matching

Applications - control joints, expansion joints, cracks, weight transfers, fork lift and heavy vehicle traffic

**MSC FLOORS IS THE PREFERRED COATINGS PROVIDER
TO THE INDUSTRY'S LEADING PRODUCT MANUFACTURERS**

Our close relationships with the product manufacturers provide us access to the best quality coatings available.

Whatever the operation, MSC Floors can offer a customized flooring solution that meets the unique needs of your facility.



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