



MARKET APPLICATION FOCUS

Manufacturing Industry

Industrial Flooring

Raceshop Floor Finish

Project: PacWest Race Shop
Indianapolis Indiana.
Owner: PacWest Racing Group.
Specifier: PacWest Racing Group.
Year: 1997

THE PROBLEM



PacWest Racing Group, one of the most exciting race teams in the open wheeled CART series, was expanding the size of their race shop by 18,000 sq. ft. They required a new floor finish, sufficiently durable to withstand impact and abrasion from day to day race car assembly, while maintaining a high level of appearance in keeping with the state-of-the-art image that PacWest racing has developed.

An epoxy floor finish twice replaced within three years was again failing in the existing race shop. Inspection revealed that the material had been applied to an improperly prepared floor, with a result that day to day impact and abrasion damaged the floor surface.

THE SIKA SOLUTION

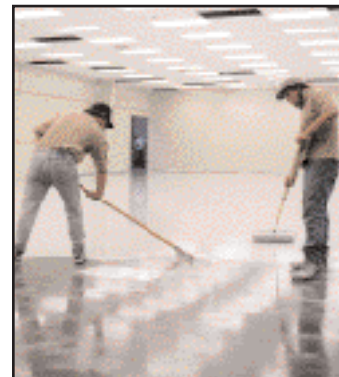
Four weeks after placing the new concrete floor it was "mat tested" to verify that moisture content was below 4%.

Preparation

Following complete removal of the existing epoxy coating, the whole floor area both new and existing was prepared to a fine sandpaper like finish. All surface defects were repaired with SikaDur 31, a thixotropic epoxy gel, construction (day work) joints carefully filled with SikaDur 51, a thixotropic, highly impact resistant construction joint sealant. Filled construction joints were sanded flush to maintain a seamless surface.

Floor Protection

All floor areas were primed with Sikafloor 90, a fast curing, solvent free, epoxy primer and broadcast with fine quartz sand. The following day, Sikafloor 90N, a highly abrasive resistant, solvent free epoxy was applied as a quartz sand filled, self smoothing floor finish. After 24 hours curing, all building movement joints were prepared and filled with Sikaflex 2C, a two component, polyurethane joint sealant.



CASE STUDY



For Industrial flooring... Sika's System approach to Repair and Protection

High Performance Repair Mortars

SikaTop Mortars - two component, cementitious polymer modified mortar for floor or joint repair.

SikaDur Resins- solvent free, two component epoxy resins for rapid and highly abrasive resistant repair for floor or joint shoulders.

Surface Levelling/ Pore Filling Mortars

SikaTop levelling mortars-achieved a level surface by filling pores, surface cracks and defects on the prepared substrate.

SikaDur resin mortar knife applied reaction curing thixotropic resin mortar may be overcoated by **Sikafloor** finishes almost immediately after application.

Epoxy Injection and Bonding

SikaDur epoxy resins applied by pressure injection or gravity feed restore structural integrity into cracks and voids. The most comprehensive range of epoxy products for structural bonding and grouting. Compatible with Sikafloor materials.

Floor Finishing / Protection

Sikafloor epoxy range of resins include impregnation and flow applied systems for most applications throughout the manufacturing industry, from light assembly to aggressive chemical and abrasion exposure.

Joint Sealants

Sikafloor High Performance Sealants - premium style and two component polyurethane joint sealants fully compatible with Sika's range of repair and protection systems.



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