

Liquid Metal Case Study

Industrial Plant Anti Slip Flooring Installation

PepsiCo use Liquid Metal as a cost effective means of laying new and replacement anti slip flooring to 12 different areas of their plant in Chile



Existing anti slip surfaces at the plant needed to be replaced having become worn and ineffective

Defect

New anti slip surfaces were required in 12 areas across the site, including to tiled warehouse flooring, concrete corridors, a metal ramp and an open lift.

To make this large-scale application as cost effective and convenient as possible, the maintenance team carrying out the project decided to seek an epoxy coating capable of bonding to the multiple different surface materials involved.

Solution

Liquid Metal Epoxy Coating was chosen for the application due to its high-strength bond with all materials and its 90 minute gel time, allowing for large quantities of coating to be mixed and applied without the threat of premature curing.

Masking tape was used to mark out where anti slip strips were required. The surface was painted with Liquid Metal, silicone carbide grit was sprinkled over the top, and then the masking tape was removed.

Once Liquid Metal had cured to form a metallic layer, the grit was permanently bonded to the floor, creating a new anti slip surface.

Result

Anti slip surfaces were successfully installed to all 12 areas. The entire application was completed in 24 hours from when the final area was coated.

The ease and speed of the installation has seen Liquid Metal subsequently used by for gritting surfaces at other plants and creating anti slip flooring for delivery vans.



Liquid Metal was painted onto the surface in strips marked with masking tape and silicone carbide grit sprinkled on top



Once cured, Liquid Metal permanently bonded the grit to the flooring, creating an anti slip surface