Project Case Study

Project

Australian Fruit Mildura

Project Summary

Substrate

25 MPA Concrete

Products

Sika Epoxy Mortar
Sika Polyurethane Joint Sealer
TAM Injection Resin

System

Concrete Stablisation & Injection

Project Description

Australian Fruits had real concrete issues with thier high traffic unloading area. The everyday task of manouvering corrosive fruits by forklifts and pallet bins caused the concrete slabs to sink resulting in water ponding and egressing down the control joints.

Poly-tech utilised the following 6 step system to solve this unstable substrate problem:

1. Careful removal of damaged and seperated concrete along the affected joint.
2. Use of expansion foam to recreate the control joint to reinstate the sides of the joint using specified epoxy mortar mix with a trowel finish.
3. Drill and inserted injection plugs to a specialised grid system.
4. Inject water in to the plugs to establish a steady water flow through the system.
5. Once flow established, convert to injecting resin which reacts with the water resulting in foam formation which stabilizes the slab by replacing the water in the substrate with foam.
6. Cut control joint, insert backing rod and fill with polyurethane joint sealant.

The result. The slab lifted & levelled correctly totally removing water ponding problems.

The concrete protection & restoration specialists

South Australia, Tasmania, Victoria & Northern Territory

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