Project Case Study

Project

Poly-Tech Polyurea Solutions

Germination Tanks

Project Summary

Substrate

Steel

Surface Preparation

Abrasive Dry Blast (Garnet)

System

Polyurea

Project Description

Abrasion and corrosion resistant coatings to steel infrastructure both new and old is an important procedure to ensure longevity and protection.

Poly-Tech's focus in steel protection is to coat metal items primarily for corrosion protection, resistance to chemicals and abrasion resistance.

Germination tanks are subjected to abrasions from malted barley as they are turned, washed and processed. There are also corrosion issues due to moisture, salt spray, oxidation or exposure to a variety of environmental or industrial cleaning products.

In these scenarios Poly-Tech delivers a polyurea solution which involves the use of a plural proportioner machine placed under high pressure to spray on an elastomeric protective coating.

As with all effective coatings the preparation of the substrate is critical to the success of ensuring adhesion. This involves dry abrasive blasting using garnet then the application of polyurea at minimum 3mm thick.

Compared to epoxies and urethanes, polyurea coatings are of superior durability and high performance. They typically have 90% more elongation than epoxies therefore mitigating the risk of coating failures from substrate movement.

Poly-Tech polyurea systems are revolutionary hybrid systems applied by specialised plural proportioners that mixes a specially formulated chemical with a catalyst. The coating is touch dry within seconds so your surface can be ready for use within a few hours of application.

Using our experience with elastomeric systems we will always ensure only the correct preparation methods and products are used in each environment offering peace of mind and unbeatable protection.

The concrete protection & restoration specialists

South Australia, Tasmania, Victoria & Northern Territory

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