

## SEAFOOD PROCESSING PLANT SECONDARY CONTAINMENT CLONTARF, AUSTRALIA

**Applicator :** Inseal Pty Ltd

**Date of Project :** November, 2009

**Date of Remediation :** August, 2024

### PROJECT OVERVIEW

The owner of an export seafood processing factory needed the failed epoxy floor coating to be replaced in order to satisfy AQIS (Australian Quarantine and Inspection Service) requirements. The existing coating was an Epoxy that had started to crack and peel away from the concrete substrate in many areas. In other areas, the existing Epoxy was still in usable condition. While Epoxies display good chemical resistance and outstanding adhesion, they are not elastomeric and will not move or stretch to accommodate movement in the substrate. Consequently, it is common to see them cracking and flaking off the substrate after some time in service.

### THE SOLUTION

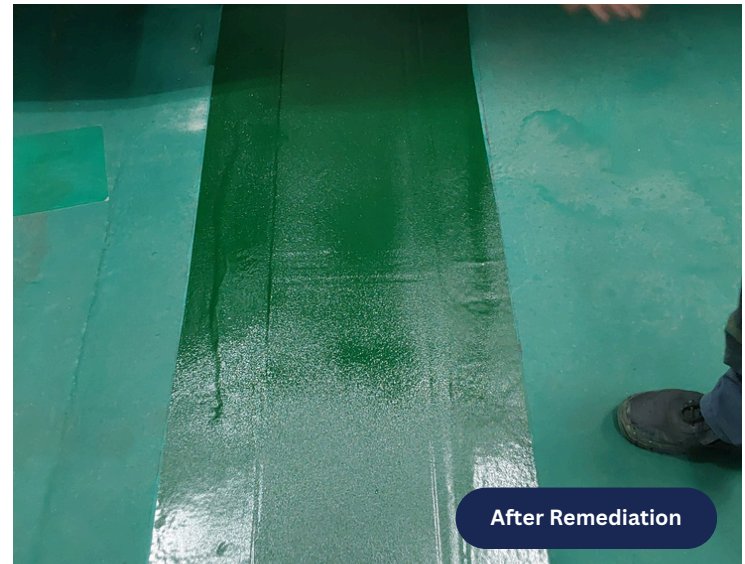
After suitable preparation of the area, Liquimix proposed the solution of spray applying a very fine mist coat of Tufflon-P90 pure polyurea; a seamless, stretchy, tough, durable protective coating. The entire secondary containment area was coated, including the joints. The fine mist application will enable a trafficable finish that is also easy to clean. Tufflon-P90 is highly chemical resistant and is more abrasion resistant than epoxies. Furthermore, the system is fast to install, does not contain any VOC's, and is environmentally friendly, making it very safe to use in food processing factories.

### THE RESULT

The Tufflon-P90 polyurea floor lining system provided an expected service life of 20 years, and the solution worked efficiently and effectively and is still performing at a high-quality level, 14 years after application. Tufflon-P90 is the perfect remedial solution for substrates that have been previously coated and are experiencing peeling or cracks. The general recommendation for future projects is to use Tufflon-P90's tough qualities and smooth surface finish to provide outstanding, lasting results for factory floors.



Before Remediation



After Remediation

### SYSTEM & PRODUCTS USED

#### System Used :

- Remove flaking and damaged Epoxy coating using a 3,000 psi water blaster at 21 L/minute fitted with a Turbo Nozzle
- Prepare all in-floor drains before application of Aralox epoxy concrete sealer
- Mask using wire trim tape
- Prime with Aralox-21 Epoxy Primer with fine sand embedded to increase adhesion
- Apply Tufflon-P90 polyurea at 3mm DFT in green colour
- Apply final mist coat of Tufflon-P90 to increase surface friction

#### Products Used 2009:

- Aralox-21
- Tufflon-P90
- Fine Sand

#### Products Used 2024:

- Tufflon-P90