



constructive solutions

Nexus Battery Recycling Plant

Western Australia



CUSTOMER Nexus Recycling
CONTRACTOR Turnkey Industrial Engineering
SECTOR Recycling
DATE May 2021

PRODUCTS

- Nitocote EP410
- Nitoflor N
- Nitomortar 903

Three Fosroc ANZ products delivered excellent chemical and abrasion resistance at a recycling plant for automotive batteries.

THE PROJECT

Nexus Recycling has opened Western Australia's first lead acid battery recycling plant. The expansive Bibra Lake facility is licensed to process more than 30,000 tonnes per annum of used automotive batteries. Batteries are crushed, separated and repackaged using specialist concrete equipment that can safely contain the highly caustic materials and liquids that are released in the process.

Over 1000 square metres of concrete flooring was primed with one coat of Nitomortar 903, a solvent free epoxy resin that will resist industrial chemicals. This created a crucial protective layer over the porous concrete surface before two coats of Nitocote EP410 were applied. The warehouse floors now boast a gleaming, uniform grey finish that can withstand many years of spills, knocks and scratches.

In the planning stages, the project team at Turnkey Industrial Engineering identified the need for robust barrier protection for all equipment surfaces, including the concrete floors, tanks and bunds.

THE BENEFITS

This specification delivered the following benefits:

- Excellent chemical and abrasion resistance from all three products
- Durability and lasting finish in a high use area
- Nitocote EP410 offers excellent adhesion and film build to SSD concrete and steel
- Efficiency - Nitoflor N is fast curing and Nitomortar 903 provides early development of initial hardness

THE SOLUTION

The concrete tanks and bunds are highly vulnerable to chemical spills and splashes. Fosroc ANZ recommended a vigorous system starting with two coats of Nitocote EP410. This is a high build, two pack epoxy with excellent abrasion and chemical resistance. This was followed by two coats of Nitoflor N, a two part, solvent free epoxy that produces a high wear finish and can resist even the most aggressive chemicals and acids.



Before

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