

Vector Substation Belmont Extension, Auckland

165 Bayswater Avenue, Auckland 0622
Waterproofing

Sika@Work



Project description

The Vector Substation at Bayswater Avenue, Belmont, Auckland, is a critical infrastructure project designed to strengthen and modernise the local electricity network. The development includes the construction of switch and transformer rooms to house essential electrical equipment and support the reliable distribution of power to the surrounding area.

Project facts

Project name	Vector Substation Belmont Extension
Location	Auckland
Year	2026
Project Size	900 m²
Product	SikaProof® A +12 SikaProof® P SikaProof® A Fix Tape SikaProof® Tape A + N SikaProof® Patch 200 B SikaSwell® S-2 Sikalastic®-152

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Project requirements

The project required a robust and long-lasting waterproofing and tanking solution to protect below-ground concrete structures from water ingress and meet demanding performance and durability standards.

SikaProof® A (pre-applied) and SikaProof® P (post-applied) waterproofing systems were selected for their proven performance, providing reliable protection to basement structures, particularly in areas subject to high groundwater levels. Together, these systems delivered a continuous and durable waterproofing barrier to ensure the long-term integrity of the substation infrastructure.

Challenges

- The site's coastal location created a challenging environment for below-ground structures, with potential exposure to groundwater and water ingress.

Solution

- To address the site's coastal conditions and potential groundwater exposure, Sika supplied the SikaProof® A pre-applied waterproofing system. The fully bonded membrane provides a durable barrier against water ingress, protecting the basement structure and critical electrical infrastructure, including transformers and switchgear. Its proven waterproofing performance ensures long-term durability and reliable operation of the substation.

Project participants

Main contractor	Connell Contractors Limited
Applicator/ Contractor	Accurate Waterproofing Limited