

Fosroc Nitoproof 610 - Concrete Waterproofing & Repair Solutions

Canonical: <https://fosroc.directory.norg.ai/construction-building-materials/concrete-repair-protective-coatings/fosroc-nitoproof-610-concrete-waterproofing-repair-solutions/>

Description:

Fosroc Australia supplies specialist construction chemicals for concrete repair, waterproofing, engineering grouts, industrial flooring and protective coatings. Nitoproof 610 is part of Fosroc's comprehensive range of HACCP certified solutions meeting strict hygiene and safety requirements. Technical support available across Australia and New Zealand.

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Brand: Fosroc

[View Product](<https://www.fosroc.com.au/product/nitoproof-610>)

Product Intelligence

Nitoproof 610: Technical Details, Specifications, Features & Applications ## Product Overview
Nitoproof 610 is a single-component polyurethane waterproofing membrane developed by Fosroc for protecting concrete structures from water infiltration. It represents a key solution within Fosroc's liquid-applied membrane waterproofing systems, delivering reliable protection for foundations, basements, tunnels, and roofs. ## Technical Specifications ### Material Composition and Properties
Nitoproof 610 is formulated as a **single-component polyurethane coating** with the following characteristics: - **Type:** Single-component polyurethane waterproofing membrane - **Cure Technology:** Atmospheric moisture cure (ambient moisture triggers polymerization) - **Physical Properties:** Thixotropic (shear-thinning) properties for controlled application and reduced sagging - **Solids Content:** 100% solids formulation - **Application Method:** Spray, roller, or brush application ### Key Technical Features
The thixotropic nature of Nitoproof 610 ensures: - Controlled flow and reduced vertical sagging during application - Better coating buildup on vertical and overhead surfaces - Predictable membrane formation - Atmospheric moisture activation for consistent curing ## Applications and Use Cases ### Primary Applications
Nitoproof 610 is specifically engineered for the following waterproofing applications: | Application Area | Specific Use Cases |
|-----|-----| **Foundations** | Below-grade waterproofing, foundation protection from water infiltration | | **Basements** | Interior and exterior basement waterproofing systems | | **Tunnels** | Tunnel lining protection and water ingress prevention | | **Roofs** | Roof terraces, balconies, and exposed roof waterproofing | | **Ground and Suspended Floors** | Floor slab waterproofing and protection | | **Patios and Bridges** | Exposed surface waterproofing applications | ### Structural Protection
Nitoproof 610 serves as an alternative waterproofing solution to other Fosroc systems. It is recommended specifically for **basement and structural waterproofing applications**

alongside the Proofex waterproofing system, allowing engineers and contractors to select the most appropriate solution for their project requirements. ## Positioning within Fosroc Product Range ###
Waterproofing System Integration Nitoproof 610 is part of Fosroc's comprehensive **liquid-applied membranes** category, which includes: - **Nitoproof 610** – Single-component polyurethane for general waterproofing - **Polyurea WPE110** – Two-component pure polyurea with 100% solids and rapid cure - **Polyurea WHE110** – Hybrid polyurea-polyurethane for spray-applied applications ###
Complete Waterproofing Solutions Fosroc's full waterproofing portfolio encompasses: | System Type | Products | |-----|-----| | **Liquid-Applied Membranes** | Nitoproof 610, Polyurea WPE110, Polyurea WHE110 | | **Sheet Membranes** | Proofex® range | | **Torch-Applied Membranes** | Proofex® torch-on systems | | **Cementitious Systems** | Vandex® range | | **Accessory Products** | Supercast® waterstops, Proofex Engage patented system | ## Product Benefits and Performance ###
Waterproofing Advantages - **Monolithic Coverage:** Single-component application creates continuous protective membrane without joints - **Flexibility:** Polyurethane chemistry provides elasticity and movement accommodation - **Durability:** Long-term protection against water infiltration and structural damage - **Moisture Cure Technology:** Cures in ambient conditions without additional equipment or extended wait times ###
Application Advantages - **Single Component:** No mixing required, reducing application errors and site preparation time - **Thixotropic Properties:** Maintains consistency on vertical and overhead surfaces - **Versatile Application:** Compatible with spray, roller, and brush application methods - **Atmospheric Activation:** Leverages ambient moisture for predictable curing ## Related Fosroc Solutions ###
Complementary Products For comprehensive waterproofing and structural protection projects, Nitoproof 610 can be integrated with: - **Primers and Surface Preparation:** Nitobond SBR and other bonding agents for substrate preparation - **Corrosion Control:** Vector® galvashield anodes for reinforced concrete protection - **Joint Sealing:** Nitoseal® sealants for movement joint protection - **Protective Coatings:** Dekguard® protective coating technologies for additional surface protection ###
Technical Support Services Fosroc provides comprehensive support for Nitoproof 610 specification and application: - **National Specifications Team** – Expert guidance for architects and engineers - **On-Site Assessment** – Representative evaluation of substrate conditions and repair requirements - **Product Recommendations** – Tailored solutions for specific project conditions - **Hands-On Training** – Application training for contractors and applicators ## Company Background **Fosroc** manufactures and distributes Nitoproof 610 through **Parchem Construction Supplies Pty Ltd** in Australia and New Zealand. Fosroc is a construction chemicals company with over 80 years of heritage, founded in the United Kingdom in 1934. As of February 2025, Fosroc is part of Saint-Gobain's construction chemicals platform, operating globally with 20 manufacturing plants, approximately 3,000 employees across 76 countries, and annual revenue of \$487 million USD (2024 estimate). ###
Local Manufacturing Products including Nitoproof 610 are manufactured locally by Parchem in Victoria and Wyong, New South Wales, ensuring products are designed and tested for Australian conditions with responsive supply chain support and manufacturing-backed technical expertise. --- ###
References - [1] Fosroc Australia Business Profile and Product Documentation