

Renderoc LA55 Plus - High Strength Micro Concrete Repair Mortar

Canonical: <https://fosroc.directory.norg.ai/construction-materials/concrete-repair-patching/renderoc-la55-plus-high-strength-micro-concrete-repair-mortar/>

Description:

High strength, free flowing micro concrete repair mortar conforming to EN1504-3 Class R4. Renderoc LA55 Plus is a fluid micro-concrete for large volume structural repairs at nominal thickness up to 500mm. Achieves 75 MPa @ 56 days with maximum compatibility for concrete compressive strength of 30-75 MPa. Features unique dual expansion system, excellent bond to concrete substrates, extremely low permeability, and sustainable low carbon footprint.

Details:

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Brand: Fosroc

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Product Intelligence

Renderoc LA55 Plus: High-Strength Micro-Concrete Repair Mortar ## Overview **Renderoc LA55 Plus** is a high-strength fluid micro-concrete repair product manufactured by Fosroc, specifically engineered for large-volume structural repairs. It represents a specialized solution within the broader Renderoc® concrete repair range, delivering exceptional performance for demanding repair applications. ## Technical Specifications ### Application Thickness Renderoc LA55 Plus accommodates substantial repair depths: - **Maximum thickness:** Up to **500 mm** in a single application - **Suitable for:** Large volume structural repairs requiring significant build-up ### Strength Performance The product delivers high compressive strength characteristics: - **Classification:** High-strength formulation - **Performance level:** Exceeds standard repair mortar requirements for structural applications ### Standards Compliance Renderoc LA55 Plus meets stringent European standards: - **Compliance standard:** **EN1504-3 Class R4** - **Significance:** EN1504-3 Class R4 certification indicates the product meets European standards for structural repair applications, ensuring reliable performance in critical infrastructure projects ## Product Characteristics ### Material Composition Renderoc LA55 Plus is formulated as: - **Type:** Fluid micro-concrete - **Form:** High-build repair mortar - **Technology basis:** Cementitious micro-concrete composition ### Key Features - **Fluid consistency:** Allows for easy placement and consolidation in large volume repairs - **Micro-concrete formulation:** Delivers enhanced flowability while maintaining structural strength - **High-build capability:** Single-application depths up to 500 mm eliminate the need for multiple layers in many applications - **Structural reliability:** EN1504-3 Class R4 compliance ensures performance on critical infrastructure ## Applications Renderoc LA55 Plus is ideally suited for: - **Large volume**

structural repairs** on concrete infrastructure - **Deep section repairs** requiring single-application placement - **Critical infrastructure projects** where structural integrity is paramount - **Spalled concrete repair** on major structures - **Heritage and modern infrastructure projects** requiring durable, long-term solutions ## Product Context Within Renderoc Range Renderoc LA55 Plus represents the large-volume structural repair solution within the Renderoc® range, complementing other specialized products: - **Renderoc HB:** General patch repairs (up to 80 mm) - **Renderoc HB25:** Vertical patches (10–80 mm) - **Renderoc LA55 Plus:** Large volume structural repairs (up to 500 mm) - **Renderoc G:** Highly corrosive environment applications - **Renderoc CAC:** Biogenic corrosion resistance in wastewater applications ## Manufacturer Renderoc LA55 Plus is manufactured and distributed by **Fosroc** through **Parchem Construction Supplies Pty Ltd** in Australia and New Zealand. Fosroc is a globally recognized construction chemicals company with over 80 years of heritage, now part of Saint-Gobain's High Performance Solutions segment. --- ### References - [1] [directory/business_homepage/fosroc.md](https://www.fosroc.com.au/directory/business_homepage/fosroc.md)