



BRANZ Appraised

Appraisal No. 1322 [2026]

ALLCO CENTRAMENT PROOF CP 10

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BRANZ Appraisals

Technical Assessments of
products for building and
construction.



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Product

- 1.1 Allco Centrament Proof CP 10 is a crystalline waterproofing admixture used to reduce the permeability of concrete.

Scope

- 2.1 Allco Centrament Proof CP 10 is a permeability-reducing admixture used to assist with the water tightening of concrete for buildings of importance level 1-5 as defined by AS/NZS 1170.
- 2.2 Buildings with concrete using Allco Centrament Proof CP 10 must be the subject of specific design.
- 2.3 Concrete using Allco Centrament Proof CP 10 must be supplied by a ready-mixed concrete supplier that is certified to the requirements of NZS 3104.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 In the opinion of BRANZ, Allco Centrament Proof CP 10, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet or contribute to meeting the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1 [a] not less than 50 years. Allco Centrament Proof CP 10 meets this requirement. See Paragraphs 13.1 and 13.2.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2 and E2.3.3. Allco Centrament Proof CP 10 meets this requirement. See Paragraphs 15.1 and 15.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Allco Centrament Proof CP 10 meets this requirement.

Technical Specification

General

- 4.1 Allco Centrament Proof CP 10 is used to reduce the water permeability of concrete and aid the production of watertight concrete. The admixture produces concrete with enhanced durability and improved protection against reinforcement corrosion by providing a physical pore-blocking action that protects resulting concrete against water ingress via hydrostatic pressure. The use of Allco Centrament Proof CP 10 will therefore produce a concrete with the following properties relative to a control concrete:
- reduced porosity
 - increased water resistance
 - reduced permeability
 - increased corrosion resistance.
- 4.2 The addition of Allco Centrament Proof CP 10 has no detrimental effect on the properties of concrete.
- 4.3 System components supplied by Allco Waterproofing Solutions Ltd as part of the Allco Centrament Proof CP 10 system are:

Concrete Admixtures

- **Centrament Proof CP 10** – a grey, powdered, crystalline admixture for concrete waterproofing. It is supplied in either 20 kg bags or 3 kg water-soluble bags.

Handling and Storage

- 5.1 Centrament Proof CP 10 admixture must be stored in a cool and dry environment and protected from direct sunlight, moisture, frost and contamination. If stored in unopened and undamaged original sealed packages it has a maximum shelf life of 12 months from the date of production.

Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
- Centrament Proof CP 10 Methodology Statement, issued 13/08/2026.
 - Centrament Proof CP 10 Crystalline Waterproofing admixture for concrete, issued 13/08/2026.
- 6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

- 7.1 Allco Centrament Proof CP 10 must be the subject of specific design when intended to provide resistance to water penetration and/or resistance to water vapour. The building structure design must also incorporate waterstops and other appropriate means to waterproof joints, penetrations and formwork ties. The critical aspects to include in the design are:
- minimum cement content
 - water/cement ratio
 - minimum concrete thickness
 - methods of crack control; and,
 - curing.
- 7.2 Design must be carried out in association with Allco Waterproofing Solutions Ltd.

Water Penetration

- 8.1 Concrete incorporating Allco Centrament Proof CP 10 has greater resistance to water penetration than the equivalent plain concrete. Subject to proper design, Allco Centrament Proof CP 10 provides watertight concrete for slab-on-grade, basements, pools, tanks, tunnels, culverts, car park decks and the like.

Water Vapour Permeability

- 9.1 Allco Centrament Proof CP 10 has a lower permeability to water vapour than the equivalent plain concrete. Subject to proper design, Allco Centrament Proof CP 10 can provide water vapour resistant concrete for slabs and walls in damp-proofing situations.

Additional

- 10.1 Allco Centrament Proof CP 10 may be used in concrete that does not meet the specific design criteria of this Appraisal. Allco Centrament Proof CP 10 may be used as an additional protection should the damp-proof membrane (DPM) fail.

Concrete

- 11.1 Allco Centrament Proof CP 10 must be supplied as ready-mixed concrete in accordance with NZS 3104, NZS 3109, the instructions of Allco Waterproofing Solutions Ltd, and this Appraisal. Allco Centrament Proof CP 10 is added to concrete mixes at a rate of **0.5-1.5 % by weight** of the cementitious binder.
- 11.2 Allco Centrament Proof CP 10 has a minimum binder content of 350 kg/m³ and a maximum water/binder ratio of 0.50.
- 11.3 Where the control of water vapour is required, it will be necessary to provide a mix with sufficiently low vapour permeability in combination with adequate section thickness.
- 11.4 Concrete mix design must be in accordance with this Appraisal and the Technical Literature. Once mixed, further materials must not be added to the fresh concrete.

Structure

- 12.1 Concrete buildings must be designed in accordance with NZS 3101, NZS 3106 or other suitable design standards.
- 12.2 The reinforcement of structures incorporating Allco Centrament Proof CP 10 for critical applications must be detailed to limit the maximum crack width in the concrete to 0.3-0.4 mm.
- 12.3 The mechanical properties of concrete incorporating Allco Centrament Proof CP 10 will not be adversely affected by its inclusion. Due to the set-retarding nature of Allco Centrament Proof CP 10, early age concrete strengths may be slightly lower than the equivalent plain concrete, but final strengths will be higher.

Durability

- 13.1 Allco Centrament Proof CP 10 will not adversely affect concrete in which it is incorporated, and concrete containing the admixture will have its expected durable life.
- 13.2 Allco Centrament Proof CP 10, if properly mixed, placed and cured, will have improved properties that are likely to extend the life of the concrete. Incorporation of Allco Centrament Proof CP 10 in concrete will reduce its permeability relative to an equivalent concrete at the same water/cement ratio. Possible benefits include:
- greater freeze/thaw resistance
 - increased reinforcement protection for the same depth of reinforcement cover
 - increased carbonation resistance.

Maintenance

- 14.1 No maintenance is required to Allco Centrament Proof CP 10 provided that significant building movement or cracking does not occur. Regular checks must be made for cracks or damage, and Allco Waterproofing Solutions Ltd must be consulted regarding waterproofing related repairs.

External Moisture

- 15.1 Concrete containing Allco Centrament Proof CP 10 provides watertight concrete for structures and can provide water vapour resistance for concrete slabs and walls when designed and used in accordance with the instructions of Allco Waterproofing Solutions Ltd and this Appraisal.
- 15.2 The building structure design must incorporate details for waterstops and waterproofing of joints, junctions, penetrations and the like. These details have not been assessed and are outside the scope of this Appraisal.

Installation Information

Installation Skill Level Requirement

- 16.1 Allco Centrament Proof CP 10 must be batched by ready-mixed concrete plants that are certified to the requirements of NZS 3104.
- 16.2 Allco Centrament Proof CP 10 must be added to the mixer at the correct ratio, prior to batching the concrete constituents. The resulting concrete should be mixed for a minimum of five minutes, to ensure that the admixture is uniformly distributed prior to discharging. When using multiple admixtures in the same batch of concrete, they should be dispensed separately into the concrete to avoid intermixing and possible interference of the admixtures.
- 16.3 Allco Centrament Proof CP 10 will be a special concrete as defined by NZS 3104, and as such, any testing requirements and compliance tolerances must be defined by the purchaser or designer in collaboration with Allco Waterproofing Solutions Ltd. Methods of sampling must be in accordance with NZS 3109. As Allco Centrament Proof CP 10 will be used for watertight or low vapour permeability concrete, special care must be taken during placing, compaction, finishing and curing, and these actions must be in accordance with NZS 3109.
- 16.4 Common defects found in typical concrete cannot be tolerated. Poor consolidation, unplanned cold joints, random cracking, penetrations, contaminations, etc. will all result in a leaking structure if not accounted for in the design and installation.
- 16.5 Allco Waterproofing Solutions Ltd must be consulted before concrete is placed regarding the inclusion of cold joints, penetrations and control joints for methods of dealing with these. These methods have not been assessed and are outside the scope of this Appraisal.
- 16.6 Compaction of concrete is best achieved by internal vibration. Where this is not practical, external vibration or vibrating screeds should be used. Compaction is important as improperly compacted concrete is much more likely to leak.
- 16.7 Freshly placed concrete must be protected from extreme temperatures or drying conditions.

Inspections

- 17.1 The contract documents must be referred to during the installation of Allco Centrament Proof CP 10 by building consent authorities or territorial authorities. Critical areas of inspection are:
- Allco Centrament Proof CP 10 is added at the specified dosage.
 - Allco Centrament Proof CP 10 is batched, placed, consolidated, protected and cured according to accepted concrete practices, instructions from Allco Waterproofing Solutions Ltd and the relevant sections of NZS 3109.
 - Construction joints are prepared and waterproofed according to the guidance of Allco Waterproofing Solutions Ltd.
 - Control joints are suitably spaced to prevent random cracking, and are waterproofed as per the guidance of Allco Waterproofing Solutions Ltd.

Health and Safety

- 18.1 When handling Allco Centrament Proof CP 10, the normal health and safety procedures associated with cementitious materials should be observed.

Basis of Appraisal

The following is a summary of technical investigations carried out:

Tests

- 19.1 The test results carried out as part of the BBA Certification of Allco Waterproofing Solutions Ltd were reviewed as part of the assessment. They were results of comparison tests with control concrete and included the following:
- slump
 - plastic density
 - air content
 - setting times
 - water permeability
 - drying shrinkage
 - wetting expansion
 - freeze/thaw expansion
 - compressive strength
 - modulus of elasticity
 - water vapour permeability.

Other Investigations

- 20.1 A durability opinion has been provided by BRANZ technical experts.

Quality

- 21.1 Manufacture of Allco Centrament Proof CP 10 has not been examined by BRANZ, but details of quality, composition and testing were obtained and found to be satisfactory.
- 21.2 The quality of supply to the market is the responsibility of Allco Waterproofing Solutions Ltd.
- 21.3 Installation on-site is the responsibility of the installers.

Sources of Information

- AC10 Acceptance criteria for quality documentation. ICC Evaluation Service, February 2009.
- AS/NZS 1170 Structural design actions.
- NZS 3101:2006 Concrete structures standard.
- NZS 3104:2003 Specification for concrete production.
- NZS 3106:1986 Code of practice for concrete structures for the storage of liquids.
- NZS 3109:1997 Concrete construction.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



In the opinion of BRANZ, **Allco Centrament Proof CP 10** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Allco Waterproofing Solutions Ltd.**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **Allco Waterproofing Solutions Ltd.:**
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions;
 - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **Allco Waterproofing Solutions Ltd.**
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Allco Waterproofing Solutions Ltd.** or any third party.

For BRANZ



Claire Falck

Chief Executive

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02 September 2026