

RUBBERGUARD LIQUID APPLIED WATERPROOFING

1. GENERAL

This specification relates to the supply and installation of the RUBBERGUARD Liquid applied reinforced waterproofing membrane for use under tiles, external wet areas including shower bases or external roof decks and below ground tanking.

Rubberguard rocket: Roof decks and undertile applications, window rebates and slab.

- Internal wet areas and shower bases under tiles
- Below ground tanking of basements and retaining walls

Rubberguard: - All under tile waterproofing and safeguard detailing

Documents

1.1 DOCUMENTS REFERRED TO

NZBC E2/AS1 External Moisture
AS/NZS 2260 Plywood – Structural
BRANZ Bulletin 472 Waterproof Decks
BRANZ Good Practice Guide Concrete Floors and Basements
BRANZ Good Tiling Practice
BRANZ Appraisal 777 and 778

Documents listed above and cited in the clauses that follow are part of this specification. However, this specification takes precedence in the event of it being at variance with the cited document.

1.2 MANUFACTURER'S DOCUMENTS

Manufacturer's and supplier's documents relating to work in this section are:

Cemix Liquid Membrane Waterproofing Manual

Copies of the above literature are available from Cemix Construction Products Ltd:

Web: www.cemix.co.nz
Telephone: 0800 ask cemix
Facsimile: 09 636 00 00

1.3 ABBREVIATIONS

The following abbreviations are used throughout this part of the specification.

BRANZ – Building Research Associates New Zealand
NZBC – New Zealand Building Code

Requirements

1.4 NO SUBSTITUTIONS

Substitutions are not permitted to any specified Cemix Construction Products Ltd system, or associated components and products.

1.5 QUALIFICATIONS

Liquid Waterproofing work to be carried out by licensed Contractors approved by Cemix Construction Products Limited. Licensed Contractors may be found by contacting :

Web: alan@cemix.co.nz
Telephone: 0800 ask cemix

Warranties

1.6 WARRANTY - INSTALLERS
Cemix Licensed Contractors to warrant the installation of the membrane system under normal environmental and use conditions against failure of materials and waterproofing.

Warranty: 5 years
From: Date of completion of installation

Cemix Licensed Contractor to provide this warranty.

1.7 WARRANTY - MANUFACTURER
Cemix Construction Products Ltd Licensed Contractors to provide a Cemix Construction Products Limited material performance warranty.

Warranty: 15 years
From: Date of completion of installation

Cemix Construction Products Licensed Contractor to provide this warranty.

Performance

1.8 PRE INSTALLATION MEETING
Convene a meeting between the licensed contractor, contractor, all associated consultants and Cemix Construction Products Ltd to ensure all parties know what is required for an effective performance of the system.

1.9 SPECIAL DETAILS
Where a standard detail does not exist or if a standard detail cannot be applied, an approved alternative must be obtained from Cemix Construction Products Limited before proceeding with the installation.

1.10 TEST
Flood test horizontal applications with a minimum 50 mm depth of water for 24 hours. Not all applications can be checked. All gutters should be checked.

1.11 PERFORMANCE
Accept responsibility for the weather tight performance of the completed system.

1.12 QUALITY ASSURANCE
Maintain quality necessary to assure that work is performed in accordance with this specification and the qualifying requirements of Cemix Construction Products Limited.

Ensure that Cemix Construction Products Ltd Quality Control sheets are completed fully and faithfully for each installation area.

2. PRODUCTS

Materials

2.1 PRIMER
Multi bond Primer, providing a smooth surface that promotes adhesion.

2.2 RUBBERGUARD
Is a class 3 membranes and has a high solids content insuring the strength of the membrane system.

2.3 RUBBERGUARD ROCKET
Is a high performance 2 part SBR membrane. Suited for high traffic areas or swimming pools.

The Rubberguard membrane system has a finished thickness of depending on the number of layers applied.

- 2.4 SAFEGUARD
Is a high performance family of reinforcing bandages. Detailing of all Safeguard is to be in accordance with the Cemix waterproofing manual.

3. EXECUTION

Conditions

- 3.1 GENERAL
Work and material to, BRANZ Good Practice Guide, BRANZ Good Tiling Practice and Cemix Construction Products Ltd specification documentation.

- 3.2 STORAGE
All materials are to be stored in a dry area, protected from contamination and within a temperature range of 5°C to 30°C.

- 3.3 WEATHER CONDITIONS
Apply Rubberguard in fine weather with a relative humidity of 65% and average temperature range of 10°C to 25°C.

Application – preparation

- 3.4 PRELIMINARY WORK
Ensure that preliminary work, including formation of falls, flashing rebates, provision of battens and fillets and fixing of vents and outlets to levels, is complete and properly constructed to enable the system to work as intended. Ensure timber fillets fit neatly and that mitres are neatly formed. This work and the substrate to be smooth, clean and dry. Identify areas of potential movement and plan for movement joints.

- 3.5 ACCEPTANCE OF SUBSTRATE
Confirm that the substrate complies with the NZBC E2/AS1 for the relevant substrates and Cemix Construction products Ltd documents, including fillets, sumps, outlets and projections and ensure work is of the required standard.

- 3.6 CONCRETE SUBSTRATE
Ensure concrete substrate has been allowed to cure for at least 28 days and has a moisture content of less than 75% RH before commencing application. Prepare surface including vacuum cleaning and acid etching / diamond grinding as necessary to leave smooth clean dry and free of debris. Make good any cracks with any Cemix crack control product.

- 3.7 PLYWOOD SUBSTRATE
Lay plywood sheets with staggered joints (brick bond) and laid tight butted with all edges fully supported. Ensure sheets are rigid, with joints flush, no lumps or hollows, smooth clean dry (18% maximum moisture content) and free of debris. Plywood to be minimum 17 mm, H3 CCA treated and conforms to AS/NZS2260. Sheets to be fixed with glue and stainless steel screws counter sunk chamfered edges At 150 mm centres on boundary fixing and 400mm through centre fixings, installed to Cemix Construction Products Limited Specification. Do not use LOSP treated plywood.

- 3.7a FIBRE CEMENT BOARD
Glue and screwed fibre cement board as per manufacturers recommendation.

- 3.8 **TURN DOWNS**
Where the membrane is to be applied to an external corner, chamfer the corner to provide a minimum 5 mm radius.
- 3.9 **UPSTANDS**
Detail all upstands with Safeguard detailing bandages.
- 3.10 **FLASHINGS**
Fit Safeguard flashings to all internal and external corners and upstands and to all penetrations to Cemix Construction Products Limited specifications. Neatly apply membrane up all upstands and around all penetrations with Safeguard bandage.
- 3.11 **CLEAN SURFACES**
Clean surfaces with a broom or compressed air to remove all dust, loose particles and material that could affect bonding.
- 3.12 **CRACKS AND VOIDS**
Identify cracked areas and confirm that the cracks viewed are stable and non-structural. Apply a primer coat water based epoxy primer into crack and void extending 75 mm outwards. Allow to cure.

Application - generally

- 3.13 **PRIMING**
Apply a full coat of Multibond Primer to the entire surface being sealed including patched areas, at a rate of .5 litres/m². Allow minimum 2 hours drying.
- 3.14 **JOINTS**
Where construction joints are necessary on the surface at corners or at edges apply a Safeguard bandage 100 mm wide encapsulated in Rubberguard.
- 3.15 **PENETRATIONS**
Seal around pipes and penetrations using Safeguard waterproofing bandage.
- 3.16 **COATING, Rubberguard SBR MEMBRANE**
Apply a two coat Rubberguard system over Multibond primer as per Cemix Construction Products Limited specification sheet. On completion of the last coat leave 72 hours minimum before commencing the toppings and overlays.

Application - Protection

- 3.17 **SECTIONAL COMPLETION**
As sections of the process / system are completed, arrange for inspection of the work prior to covering
- 3.18 **TOPPINGS AND OVERLAYS**

- Tiled Deck / Bathroom: Lay tiles into a bed of Enviroflex tile adhesive to suit the membrane
Solvent based adhesives must not be used
- Paved Deck use Paver supports and place pavers as required.

Completion

3.19 CLEAN UP
Clean up as the work proceeds.

3.20 LEAVE
Leave the work to the required standard by the following procedures.

3.21 REMOVE
Remove debris, unused materials and elements from the site.

4. SELECTIONS

4.1 PRIMER
Manufacturer; Cemix Construction Products Ltd. Brand name: Multibond

4.2 Rubberguard SBR MEMBRANE
Manufacturer: Cemix Construction Products Ltd
Brand name: Rubberguard