CEMCO B1
Bathroom & Balcony Waterproof Membrane System

Cemco B1 is a premixed, flexible and tough membrane with the ability to withstand continuously wet environments and ponding. Cemco B1 is low in odour, user and environmentally safe. Cemco B1 is designed for waterproofing wet areas, showers, laundries, terraces, balconies, decks, concrete slabs and general structures that will be covered over with toppings, tile beds or overlay finishes. Developed with advanced polymer technology, Cemco B1 is flexible and elastomeric, and has the ability to withstand continuously wet conditions.

Cemco B1 satisfies the requirements of AS3740 “Waterproofing wet areas in residential building”

Suitable for Commercial, Industrial and Residential Applications.

FEATURES & BENEFITS

- Water based, free of solvents, non-toxic and non-flammable
- Withstands continuously wet environments and ponding
- Designed for Cemco, WESTBUILD and Coloro adhesives and building systems. However compatible with concrete, render and masonry surface toppings.
- Excellent vapour barrier with low water vapour transmission properties
- Can be applied by brush, roller or spray unit
- Low in odour

PRODUCT USES

- Internal wet areas
- Showers, bathrooms and laundries
- Balconies, podiums, terrace floors and decks
- Excellent vapour barrier with low water vapour transmission properties
- Retaining walls, planter and garden beds
- General tiled areas to prevent moisture ingress
- Can be applied by roller, brush or spray unit on horizontal and vertical surfaces

PRODUCT GUARANTEE

Cemco B1 satisfies the requirements of AS3740, and engineered for Cemco, Westbuild and Coloro adhesives and building systems. Cemco B1 is also a compatible bonding surface for a variety of adhesives, renders, tiles and screeds to adhere to without concerns of incompatibility or de-bonding.

DIRECTIONS

Substrates:
- Concrete, render and masonry
- Plaster board, fibre cement and structural sheeting
- Wet area timber sheeting and external grade plywood
- Aerated concrete panels and blocks
For other substrates not listed above, please contact Cemco Industries Pty Ltd for technical support and correct advice.

**Preparation:**
- Surfaces must be prepared thoroughly before commencing application
- Substrates must be structurally sound, stable, dry and completely clean
- All surfaces are to be free from sharp protruding surfaces, loose material, de-bonded coatings, curing or release membranes/agents, wax residues and all foreign particles. Substrates must have a compressive strength of minimum 25mpa, and cohesive strength a minimum of 1.5mpa.
- Building surfaces must be constructed to manufacturer’s recommendations and relevant building standards in force at time of membrane application
- Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods

**Primer:**
- Cemco B1 must be applied to primed surfaces
- Cemco 101 Multi purpose liquid (Primer, admixture and bonding agent)
  - For general vertical and horizontal porous building surfaces. Brush or roller apply 101 primer to total surface area with a minimum coverage of 1 litre per 6m² and allow drying for 30 minutes or once wet film dries to a clear transparent coating

**Membrane Application:**
The membrane is to be applied with a minimum of 2 coats, with a minimum dried thickness of 1.2mm. Cemco B1 can be applied by roller, brush or spray unit. A Joint Band is the recommended bond breaker for wall/floor junctions. Do not attempt to achieve high film thickness in one coat and apply the second coat at 90 degrees to the previous

Coverage is dependant on surface conditions, and will vary, as uneven or porous surfaces will require greater coverage in order to achieve the specified film thickness

**Installing a Bond breaker Joint Band:**
- **Wall / Floor Junctions**
  Measure and cut the Joint Band for all wall/floor junction areas. Apply the first coat of Cemco B1 membrane to approximately 150mm extending up walls and on to floors.
  The joint band needs to be embeded into the wet bed of liquid membrane, ensuring fabric edges are fully wet out and no air bubbles exist behind the fabric.
  At sections where the Joint Band is to be joined, a minimum 50mm overlap is required.
- **Corners**
  The Joint Band is to have bottom leg cut and folded; ensuring fabric is completely bonded with Cemco B1 membrane

**For floor pipes protruding floors:**
- Collars are to be fitted over the neck of the pipe, embedding fabric edges into wet bed of Cemco B1 membrane.
  For floor wastes that are finished level with the floor, Fabric joint band is to be embedded and dressed down into the waste outlet at a minimum 50mm.

Once the Joint Band is in place, apply Cemco B1 membrane to the total floor area and to walls at 150mm high in general wet areas and balcony decks, and at 1.8m high in shower alcoves. A continuous seamless membrane should be the final finish to the total area upon completion of the waterproofing membrane application.
Detailing:

<table>
<thead>
<tr>
<th>Voids, Gaps and Undulating surfaces</th>
<th>Filled and repaired with a mortar compound, mixed with Cemco 101 multi-purpose liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cracks up to 1.0mm</td>
<td>Filled with a flexible sealant (paintable sealant)</td>
</tr>
<tr>
<td>Cracks greater than 1.0mm</td>
<td>Filled with a flexible sealant, followed by a joint band</td>
</tr>
<tr>
<td>Movement or expansion joints</td>
<td>Joint band (fabric) reinforcing</td>
</tr>
<tr>
<td>Penetrations, pipes, drains</td>
<td>Joint band (fabric) reinforcing</td>
</tr>
</tbody>
</table>

Tiling and Surface Toppings:

- It is recommended when tiling directly over Cemco B1 in internal and external floor areas, that Cemco, WESTBUILD or Coloro building systems, adhesives or mortars are used.
- If applying a screed, render or concrete topping over Cemco B1 it is recommended to incorporate Cemco 101 as a proprietary bonding agent, admixture and water resistant additive.
- For use of other tile adhesives over Cemco B1 contact Cemco Industries Pty Ltd for detail of compatibility.
- Pre mixed tile adhesives are not recommended to be used over Cemco B1.
- Drying time before tiling is 24-48 hours.

*Note: All tiling is to be carried out to AS3958.1 – 2007 “A Guide To The Installation of Ceramic Tiles”*

**Based on normal conditions, and at 20°C.**

<table>
<thead>
<tr>
<th>Tack free</th>
<th>1-2 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Re-coat</td>
<td>4 hours</td>
</tr>
<tr>
<td>Dry film</td>
<td>24 hours</td>
</tr>
<tr>
<td>Tiling or topping</td>
<td>24-48 hours</td>
</tr>
</tbody>
</table>

*The application must comply with AS3740.

**COVERAGE**

Apply product at a minimum of 2 coats and at a total minimum coverage of 1.5 litres/m² to form a dried film thickness of 1.2mm.

**DRYING TIME**

Allow 24 hours drying before tiling or topping application. In cool conditions or on non-porous and dense surfaces, this may be prolonged.

**PACKAGING**

4 Litre Pail (4 units per carton), 15 Litre Pail, 200 Litre drum
LIMITATIONS

- NOT to be used as a trafficable surface or exposed membrane.
- Do NOT apply when surface temperature is below 5°C or above 35°C.
- NOT to be applied over glass or glazed surfaces.
- NOT to be applied when rain is imminent
- NOT to be used in areas where solvent or petroleum based products may be spilled
- All finish coatings over this membrane must be water based and solvent free
- Allow 10 days drying after final application if treated area is to be flood tested
- NOT to be used in areas subject to negative hydrostatic pressure.
- Material safety data sheets are available (MSDS) and should be referred to when using this product.
For further information contact Cemco Industries Pty Ltd

CLEAN UP

Clean up with water only while the material is still wet.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Wet and dry film – blue</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Viscous paste</td>
</tr>
<tr>
<td><strong>Drying</strong></td>
<td>Tack free: 1-2 hours</td>
</tr>
<tr>
<td></td>
<td>Re-coat: 4 hours</td>
</tr>
<tr>
<td></td>
<td>Dry film: 24 hours</td>
</tr>
<tr>
<td></td>
<td>Tiling or toppings over: 24-48 hours</td>
</tr>
<tr>
<td></td>
<td>Flood Test: 10 days curing</td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
<td>1.46kg/litre</td>
</tr>
<tr>
<td><strong>Shore A Hardness</strong></td>
<td>65</td>
</tr>
<tr>
<td><strong>Solids Content</strong></td>
<td>80%</td>
</tr>
<tr>
<td><strong>Potable Water</strong></td>
<td>Passed – exposure of 7600mm²/litre</td>
</tr>
<tr>
<td><strong>Adhesion to concrete</strong></td>
<td>1.3Mpa at 1mm dry film thickness</td>
</tr>
<tr>
<td><strong>Durability Test Results to AS/NZS 4858-2004:</strong></td>
<td></td>
</tr>
<tr>
<td>Elongation</td>
<td>480%</td>
</tr>
<tr>
<td>Classification</td>
<td>Class III</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>1.09Mpa</td>
</tr>
<tr>
<td>Water Immersion Test - 56 Days</td>
<td>PASS</td>
</tr>
<tr>
<td>Bleach Immersion Test - 56 Days</td>
<td>PASS</td>
</tr>
<tr>
<td>Detergent Immersion Test - 56 Days</td>
<td>PASS</td>
</tr>
<tr>
<td>Heat Ageing</td>
<td>PASS</td>
</tr>
<tr>
<td>Cyclic Movement Test</td>
<td>PASS</td>
</tr>
<tr>
<td>Water Absorption Test</td>
<td>1.82%</td>
</tr>
<tr>
<td>Vapour Transmission Test</td>
<td>0.14g/24h/m²</td>
</tr>
</tbody>
</table>
NOTES

It is recommended before commencing the application; that adhesion of products to be used is tested over a typical area to ensure satisfactory adhesion. It is the responsibility of the applicator to carry this out and accept the substrate suitability before any application starts. Details contained in the data sheet are general. For any situation or items not covered in this data sheet, it is the responsibility of the applicator to contact Cemco Industries Pty Ltd for further advice.

CONTACT DETAILS
Cemco Industries Pty Ltd
Phone: 08 9309 2079
Fax: 08 9302 1129

PRODUCT DISCLAIMER
This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Cemco Industries does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.