

# Mulseal Plus

## Liquid applied bitumen waterproofing membrane

### Positioning

**Description** Mulseal Plus is a bitumen based emulsion

**Use** Mulseal Plus has been formulated for use as a damp-proof course underneath concrete floors, as a waterproof membrane behind retaining walls and as a damp-proof membrane for buried faces of basement structures. Mulseal Plus will cover concrete, concrete block and brick-work, wood and metal.

**Advantages**

- Tested by BRANZ to meet the requirements of NZS 3604:1999 to comply with the New Zealand building code clause E2/AS1.
- Fast cure.
- Simple to apply by brush, roller or spray.
- Excellent adhesion to concrete, masonry, etc.
- Low water permeability.
- Can be applied to green concrete.
- Resistant to sulphates and ground salts.

**Tests Approvals / Standards** Meets moisture vapour permeability requirements of NZS 3604:1999

### Product Data

**Form:** Thixotropic liquid mixed

**Colour:** Black

**Storage & Shelf Life:** Shelf life 6 months when stored in original containers in a dry place below 35°C and away from frost.

**Packaging:** Mulseal Plus is supplied in 4 litre and 20 litre containers.

### Technical Data

**Solids content:** 60%

**Density:** 1.00 kg/lt

**Application temperature range:** 5°C to 50°C

**Drying time:**

- 4 to 6 hours.
- 12-24 hours should be left between coatings.

**Coverage** Approximately 2 m<sup>2</sup>/ litre / coat, depending on the nature of the surface being treated.

### Application Conditions

**Preparation**

- Clean down surface to be treated removing all dust, grease, laitance and foreign matter.
- Remove any form release agent residues and curing compounds by high pressure waterblasting, grit blasting or mechanical wire brushing.
- Grind back smooth any dags or ridges. Any surface irregularities should be filled using Sika Monotop repair mortars or Sikadur 41 epoxy repair mortar.
- Lightly dampen surface to be treated with water, but ensure that no free water remains.
- Stir Mulseal Plus thoroughly before use.

**Control joints** Movement control joints in concrete or concrete masonry should be sealed with Plastiseal prior to applying the Mulseal Plus. Refer to the Plastiseal data sheet for details on joint sizes and application methods. For high movement joints refer to the Sika technical department.

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<b>Priming</b>	<ul style="list-style-type: none"> <li>• Porous surfaces: A primer coat of 1 part clean water to 1 part Mulseal Plus should be used. Add water slowly and mix thoroughly.</li> <li>• Metal and timber surfaces: One coat of Sika Torch-on Primer.</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>• Apply Mulseal Plus with a coarse whitewash brush or broom. Soak brushes in water before use and periodically during application. Large flat areas may be applied by roller or squeegee. For spray application refer to Sika's Technical Service Department.</li> <li>• Two full undiluted coats of Mulseal Plus are recommended for best results. Allow each coat to dry 12-24 hours before re-coating.</li> <li>• In floors as a sandwich membrane, blind the final coat with sand to reduce damage.</li> </ul>
<b>Curing</b>	Allow each coat to dry 12-24 hours before recoating.
<b>Protection</b>	Mulseal Plus must be protected immediately after curing by using a suitable protection sheet such as Proofex Guardsheet for walls and by using a and/cement screed or fibre cementboard for floors.
<b>Important Notes</b>	
<b>Limitations</b>	<ul style="list-style-type: none"> <li>• Do not expose to sunlight.</li> <li>• Do not overcoat with paints as staining will occur and if exposed to sunlight the paint film will crack.</li> <li>• Mulseal Plus is recommended for use only as described in the Uses section of this data sheet.</li> </ul>
<b>Notes</b>	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
<b>Local Restrictions</b>	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
<b>Health &amp; Safety Instructions</b>	
<b>Warning</b>	Avoid contact with skin and eyes, avoid breathing vapour. This material may be harmful if swallowed or inhaled and may cause skin or eye irritation.
<b>Precautions</b>	<ul style="list-style-type: none"> <li>• Wear protective (PVC) gloves and eye protection when mixing or using.</li> <li>• Further details on each of the products mentioned are available on the product Material Safety Data Sheets.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>• If spilt, absorb with clay, sand or earth.</li> <li>• Collect and seal in properly labelled metal containers.</li> <li>• Dispose of according to local authority regulations.</li> <li>• Do not dispose of down drains or into local waterways.</li> </ul>
<b>Protective Measures</b>	<ul style="list-style-type: none"> <li>• To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.</li> <li>• Local regulations as well as health and safety advice on packaging labels must be observed.</li> <li>• For further information refer to the Sika Material Safety Data Sheet which is available on request.</li> <li>• If in doubt always follow the directions given on the pack or label.</li> </ul>
<b>Important Notes</b>	<ul style="list-style-type: none"> <li>• Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.</li> <li>• Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.</li> </ul>
<b>Legal Notes</b>	The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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