

Viking Below Ground Tanking

PURPOSE

Viking supply Below Ground Waterproofing (Tanking) systems to deliver low-risk solutions for waterproofing of walls and floors of habitable spaces.

Installed as single- or double-layer waterproofing to the outside of below ground retaining walls, including connection to Viking Under-slab, will provide a robust tanking system from wall to below floor level.

Viking Drainage and Protection Board, with free-draining granular backfill to subsoil drainage coil, will provide a drained cavity for low-risk waterproofing up to a maximum depth of 10 metres.

Viking provide two robust Below Ground waterproofing (Tanking) systems

1/ VIKING TORCH-ON MERCURY

A torch applied system for use on masonry block and concrete walls with a drainage coil below floor level up to 5.0 m deep as a single layer system and up to 10m deep as a double layer system

Installed to primed flush-pointed masonry blocks and in-situ concrete wall substrates without voids. Works with Viking Under-slab for a strong connection between below floor level to the wall.

Requires Viking Drainage and Protection Board, with free-draining granular backfill to subsoil drainage coil.

Limitations:

1. Drained Cavity required
2. Masonry or concrete substrates only. Not suitable for polystyrene block or EPS, XPS insulated walls
3. 10Mt depth as double layer system drained cavity
4. 5Mt depth with single layer system drained Cavity
5. Surface temperatures -15°C and above
6. Requires minimum of 800mm of safe working space behind the wall to allow for installation using Gas torches.

2/ VIKING PEEL & STICK

A self-adhered system for use on masonry block and concrete walls with a drainage coil below floor level to 5.0 m depth as a single layer system.

To EPS or XPS insulation substrates (using water-based primers) as single-layer to 1.5m depth or as a double-layer system to 3.4 m depth. In both cases it is important to mechanically secure the tanking through the EPS/XPS substrate. Refer specification for further detail.

Installed to primed flush-pointed masonry blocks, in-situ concrete walls, EPS or XPS substrates without voids. Works with Viking Under-slab for a strong connection between below floor level to the wall.

Requires Viking Drainage and Protection Board, with free-draining granular backfill to subsoil drainage coil.

Viking Peel & Stick Tanking continued...

Page 1 of 3

Viking Peel & Stick Tanking continued

Limitations:

1. Drained cavity required
2. Masonry substrates: 5mts depth for single layer Viking Peel & Stick
3. EPS, XPS substrates 1.5mts for single-layer Viking Peel & Stick. Pressure Bar fastened at top
4. EPS, XPS substrates 3.4mts for double-layer Viking Peel & Stick. Pressure Bar fastened at 1.7mt intervals
5. Surface temperatures are 4.4°C and above (CCW MiraDRI 860)
6. Requires minimum of 600mm safe working space behind the wall to allow installation.

VIKING UNDER-SLAB

To be used with either tanking system, as the name suggests this 4mm SBS Bitumen sheet is to waterproof below the foundation or floor slab fully, or to connect to the DPM under the slab with a min. 300mm overlap. Viking Under-slab will finish to the top of the finished, poured floor level to provide a robust connection to the wall membrane being either Viking Torch-on Mercury or Viking Peel & Stick Tanking membrane systems.

SITE & SUBSTRATE PREPARATION

Refer project specification for site specific requirements

Refer Viking Technical Note Below ground tanking methodology

Refer Viking Checklists:

CHECK LIST: Below Ground Tanking Site and Substrate by BUILDER

CHECK LIST: Below Ground Tanking Installation by INSTALLER

SUBSTRATES: To be dry, clean, smooth and stable. Free of any contaminants, voids, or protrusions. Fill any voids with compatible non-shrinking material. Smooth off any ridges or rough areas of mortar or concrete which may damage the membrane. Substrate to have a relative humidity of 75% or less. Do not work on a wet substrate. Pre-cast concrete with no voids. Blockwork requires flush finish to side of tanking.

- Site concrete or Tidy Slab: 45mm minimum (thicker may be required for site conditions)
- Compacted sand fines: 25mm minimum (thicker may be required for site conditions)
- Concrete or Masonry Block: Precast concrete with no voids, Blockwork requires flush finish to side of tanking. Prime with Water-based or Solvent primers as required.
- EPS or XPS Insulated foundations or walls. Including application to Polystyrene blocks
 - Use Viking Under-slab with Viking Peel & Stick to 2 dry coats of Easy-Paste water-based cold applied adhesive.
 - Secure through substrate into Concrete using Pressure Bars or Termination flashings fastened at 1.7mt intervals maximum spacing
 - NO Solvent primers nor heat above 90°C for installations near or over EPS / XPS.

Site & Substrate Preparation continued...

Page 2 of 3

Site & Substrate Preparation continued

PRIMERS: Water-Based and Solvent Based

Apply primer by medium nap roller or brush in an even film to recommended coverage rate. Apply only to surfaces where membrane will be applied in the same day. Primers shall be allowed to dry completely (lower temperatures will extend drying time) before additional coats are applied or membranes installed. 2 dried Coats of Easy-Paste required for EPS / XPS substrates for use with Viking Peel & Stick. Adhesion to EPS or XPS is not strong so will require mechanical fastening immediately.

FURTHER INFORMATION

Components: refer current Viking Product Catalogue

Specifications: refer Viking Masterspec Specifications

4131VM VIKING MERCURY TANKING / 4131VP VIKING PEEL & STICK TANKING MEMBRANE

Details: refer Viking Standard Details [available online](#)

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