

Viking Decoupling system

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Viking Decoupling System Purpose

The Viking Decoupling System is to be used where Tiles are required as an overlay of a waterproofed deck and when installation of the Buzon pedestal protection system is not an option. It is designed to allow independent adhesion of tiles over Viking Enviroclad when used as a deck waterproofing layer. As the name suggests the Viking Decoupling system provides a slip or decoupling layer between the waterproofing layer and the tiles. Viking Roofspec has never recommended fixing of tiles directly to waterproofing membranes. The Decoupling system is laid over the waterproofed substrate with a temporary adhesive designed to hold only long enough for the tiles to be adhered to the top face of the decoupling sheet. This ensures that movement within the building substrate and movement in the tiles can be kept independent and most importantly protect the waterproofing layer. If later removal of the tiles were required, this will not adversely affect the waterproofing layer.

Viking Decoupling System is an accessory to complement Viking Roofspec's Enviroclad 1.52mm waterproofing membrane. Installation of substrates must be carried out by Tradespersons with an understanding of roof and deck construction in accordance with instructions given within the Viking Roofspec technical literature and Vikings Dec-K-ing Substrate checklist with the aim of minimising and where possible controlling substrate movement.

Find installation guides, substrate checklist and Post-installation Checklist on <https://www.vikingroofspec.co.nz/details-documents/membrane-roofing/enviroclad-tpo/>

Viking Decoupling System can be installed once the Viking Enviroclad membrane has been installed and QA signed-off by the Viking Licensed Installer and main-contractor.

Components

* *NOTE: all coverage rates are based on a wet mix.*

- **VDS100** - Decoupling Mat - 1m x 30m
- ***VDS101** - Decoupling Tape - 150mm x 30m
- ***VDS102** - Internal Corner
- ***VDS103** - External Corner
- ***Spray Adhesive from Bunnings** use CRC 550ml ADOS Ultra High Strength
- VDS105 as **Base Adhesive** - for temporary spot adhesion of Decoupling Mat to Enviroclad.
- **VDS105** - Tile Adhesive
*Small tiles *3kg per m² with the use of a 6mm notch trowel,
Normal size tiles (200x200mm – 400x400mm) *4kg per m² with the use of an 8mm notch trowel,
Large tiles and double spreading *5kg per m² with the use of a 10mm notch trowel.
12.1 litres of water (29% ± 1%) for 25 kg of Tile Adhesive (VSD105)*
- **VDS106** - Sealant

Installation instructions on following page...

Installation of the Viking Decoupling System

* NOTE: all coverage rates are based on a wet mix.

- 1) Viking Roofspec Decoupling Tape (VDS101) is placed around the perimeter. ([Aerosol Adhesive solvent-based to be used](#)). CRC 550ml ADOS Ultra High Strength Spray Adhesive from Bunnings.
- 2) Factory-made internal and external corners are applied where needed. ([Aerosol Adhesive solvent-based to be used](#)).
- 3) Viking Decoupling Mat (VDS100) is unrolled measured to size and lengths cut.
- 4) Apply two beads of sealant (VDS106) on top the yellow tape base.
- 5) Mix Tile Adhesive SikaCeram -255 StarFlex LD (VDS105) - and spot apply (100x100mm) to the Enviroclad membrane surface at 600mm centres using a 4mm notched trowel with grooves running towards the drain.
- 6) Unroll the Viking Decoupling mat in place on top of the spots of adhesive.
- 7) Using the flat side of the trowel to imbed the decoupling mat into the spots of Tile Adhesive, the adhesive should flatten and spread out to approx. 150 x 150mm.
- 8) All joints of Viking Decoupling mat require a 4-5mm gap.
- 9) Joints to be covered with the Decoupling tape (VDS101) imbedded into and covered by the same tile adhesive SikaCeram -255 StarFlex LD (VDS105).
- 10) Once floor space is covered with Viking Decoupling System, tiling can start immediately.
- 11) Recommended tile adhesive e.g. SikaCeram -255 StarFlex LD (VDS105)

Note: Please follow tile supplier specifications and Best Practice Guidelines for expansion joint spacing and notch trowel to use with size tiles.

The Viking Decoupling System should not get wet prior to installation of the tiles.

Properties and Characteristics of material:

Viking Decoupling System is made of yellow polypropylene with a mesh fabric and a backing fleece which is also made of polypropylene. Thanks to this material composition, the mat is resistant to many corrosive chemicals (e.g.: salts, acids and alkali) at low concentrations.

For application areas under heavy chemical loading, a check of the chemical concentration, temperature and exposure time must be carried out prior to using the mats.

PRODUCT DATA:

MATERIAL: Dimpled sheeting = PP, Backing fabric = PP, Mesh fabric = PP (PP = PolyPropylene)

MAT HEIGHTTHICKNESS: 3 mm

ROLL WIDTH: 1MT

ROLL LENGTHS: 5 / 10 / 30 m

MAT COLOUR: Dimple film = yellow, Backing fabric = white, Mesh fabric = green

SPECIAL PRODUCT PROPERTIES: Resistant to chemicals, rotting, fungi and bacteria

Stress classifications: A, A0, B0

Temperature resistant: -40°C to +80 °C

Exceptional tensile adhesion

TEST CERTIFICATES: Tensile adhesion strength according to DIN EN 1348:2007, MPA Weimar

CSTB 13/13-1193

TCAN-053-B#1

STORAGE: Store in a dry place