TERMSEAL Active Systems

Installation Manual 2024 v5.6

TERMSEAL Active System, Perimeter, Penetration and Damp course Systems Installations and Specifications

Supersedes Version: 2022 v5.5
Complies with A.S. 3660.1-2014
Code-Mark Certification CM40017(BCA 2022)

Termite and Damp Course Management Systems

Active constituent:

TERM-seal ™ Multi-Purpose Active 0.65g/l Bifenthrin
TERM-seal ™ Sealant Active 0.75g/l Bifenthrin
TERM-seal ™ PRM Active 1g/kg Bifenthrin
TERM-seal ™ Ura-Fen Shield TWB 2g/kg Bifenthrin
TERM-seal ™ Ura-Fen Termite Resistant Adhesive 2g/kg Bifenthrin
TERM-seal ™ Ura-Fen Major Termite Barrier Part B 5g/kg Bifenthrin

CODEMARK® Australia
CMI CERTIFICATION Certificate CM40017
AUSTRALIAN MADE AND OWNED

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Version Control

Date	**Version**	**Details**	**Edited By**
August 2019	5.2	Formatting changes	B. M. Webb
August 2019	5.3	Editing	P. N. Brigden
January 2020	5.3.1	Additional PRM Information	B. M. Webb
September 2020	5.4	EZY-collar, Slab edge, Eco-Block	P. N. Brigden
August 2022	5.5	Shield TWB detail, Void Filla	P. N. Brigden
December 2023	5.6	Shield TWB100mm -A Joint Filler strip, Inspection Zone Clearances	P. N. Brigden

Contents

PREFACE

TERMSEAL AUSTRALIA PTY. LTD. is dedicated to the CodeMark certification program that will ensure continuity in manufacture. TERMSEAL accredited installers and their clients are provided with quality products that are to be used in accordance to the installation methods as set out in this manual.

The CodeMark accreditation of TERMSEAL's systems is dependent on a quality assurance system, in which tracking systems and quality control are required.

Each individual product has a batch number on the product label. This batch number must be recorded by the installer when used on a job and form part of the installer's records.

Installations must be recorded on the TERMSEAL installer work sheet AD013, detailing type of installation, material used, placement of material, material batch records and job number.

No third-party privacy details are required.

The installation job return sheet AD014 is to be returned to TERMSEAL AUSTRALIA PTY LTD within 30 days of installation.

WARNING: Where installation of these systems or products has not been undertaken strictly as per this Manual's instructions, the CodeMark certification and claims for compliance under the National Construction Code (NCC) will be deemed null and void. Where this has occurred, alternate building compliance solutions will need to be sought for the specific site.

TERMSEAL AUSTRALIA PTY. LTD. Environmental Policy Statement

TERMSEAL is committed to leading the Termite Control industry in minimizing the impact of its activities on the environment.

The key points of its strategy to achieve this are:

- *Minimize waste by evaluating operations and ensuring they are as efficient as possible.*
- *Minimize toxic emissions through the selection and use of its power requirement.*
- *Actively promote recycling both internally and amongst its customers and suppliers.*
- *Source and promote a product range to minimize the environmental impact of both production and distribution.*
- *Meet or exceed all the environmental legislation that relates to the Company.*
- *Use an accredited program to offset the greenhouse gas emissions generated by our activities.*

Signed

Managing Director

SYSTEM OVERVIEW

TERMSEAL's Active System is a combination of new and innovative components that come together to form effective termite proofing solutions for new and existing buildings.

TERMSEAL Active Systems products are APVMA approved for use.

TERM-seal ™ PRM Active

APVMA Registration # 62741/43877
Referred to as Cord & Capping strip in this Manual

A specialized, termite resistant and waterproof sheeting containing 1g/kg Bifenthrin as the active constituent. It consists of **TERM-seal ™ Multi-Purpose Active** termite and waterproof compound that is impregnated into a poly fibre industrial fabric using knifing technology and then cured through a drying bank.

TERM-seal ™ PRM Active sheeting has been tested as suitable as a damp course.
TERM-seal ™ PRM Active is used with **TERM-seal ™ Ura-Fen Major, TERM-seal ™ Multi-Purpose Active** and **TERM-seal ™ Sealant Active** to:

- Form a full and continuous physical termite barrier and damp course around perimeter cavities for all types of construction.

TERM-seal ™ PRM Active is used with **TERM-seal ™ Multi-Purpose Active** and **TERM-seal ™ Sealant Active** to:

- Adhere the PRM to joints in concrete slabs, as masonry cord protection (110mm)
- As part of an ant capping (150mm & 230mm) system for bearer and joist construction.

TERM-seal ™ PRM Active has applications for:

- Footing Slabs
- Monolithic Slabs with brick course step down
- Monolithic Slabs with 2-course step down
- Infill Slabs
- Ant Capping to bearer and Joist construction
- Monolithic Slabs with timber frame and clad wall constructions

TERM-seal ™ PRM Active is available in 25 Metre rolls of 110mm, 150mm and 230mm widths. It is also available in 300mm x 300mm pier cap sheets.
PRM must be used in conjunction with TERM-seal ™ Multi-Purpose Active, TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Major and TERM-seal ™ penetration collars to create a complete, termite resistant physical termite and waterproof barrier (The TERMSEAL Perimeter, penetration and Damp-course System)

TERM-seal ™ Ura-Fen Major

APVMA Registration # 63003/59168

TERM-seal ™ Ura-Fen Major is a two-component polyurethane settable foam containing 5g/l Bifenthrin as active constituent when cured. The foam comes together by the mixing of polyol and isocyanate components that undergo an exothermic reaction to create a settable, termite resistant and waterproof barrier. It is specially engineered for use in building situations to fill gaps, fissures and cavities. When dispensed, the foam is purple/blue in color.

TERM-seal ™ Ura-Fen Major is dispensed by:

- Air operated Bi-Mixer Gun in either 300ml or 750ml disposable Part A and Part B twin cartridges.
- Manual Bi-Mixer Hand Gun using 750ml disposable Part A and Part B twin cartridges.
- Manual Bi-Mixer Hand Gun using 300ml disposable Part A and Part B Cartridges.

Air Operated Bi-Mixer Gun

Manual Bi-Mixer Hand Gun (300ml)

TERM-seal ™ Ura-Fen Major must be used with **TERM-seal ™ Multi-Purpose Active, TERM-seal ™ Sealant Active** and **TERM-seal ™ PRM Active Cord & Capping Strip** (110mm) for brick cavity applications. When dispersed to form a barrier it must have a minimum depth of 40mm thickness.

TERM-seal ™ Prime Coat

TERM-seal ™ **Prime Coat** is a ready to use solution.
TERM-seal ™ **Prime Coat** **must** be applied on all applications prior to the first coat of TERM-seal ™ **Multi-Purpose Active** or TERM-seal ™ **Sealant Active**, especially to older or contaminated, porous and friable surfaces that have been cleaned. Application is by brush, roller or spray gun and has a coverage rate of 10 square metres per litre, and at normal ambient conditions is touch dry in 10-15 minutes.

TERM-seal ™ **Prime Coat** is available in 4 litre pails or 15 litre buckets.

TERM-seal ™ Sealant Active termite and waterproof barrier

APVMA Registration # 62739/102690

TERM-seal ™ **Sealant Active** contains 0.75g/l Bifenthrin as active constituent when cured, and, is a specially prepared formulation for use in joints of all types. The sealant is available in:
360 gm. disposable cartridges for single cartridge guns
900 gm. disposable cartridges for large cartridge guns
10 litre buckets for paint on, or refillable applicators.

Dark grey in colour TERM-seal ™ **Sealant Active** is designed for crack and joint applications.

TERM-seal ™ **Sealant Active** is also used as a component in:

- Service Penetration protection
- Bonding Agent of TERM-seal ™ **PRM Active** to concrete & Masonry
- Repairs and joints with Reo-Band FG

TERM-seal ™ URA-fen Termite Resistant Adhesive

APVMA Registration# 70455/63479

TERM-seal ™ **Ura-Fen Adhesive** is a high quality, solvent based polymer adhesive, specially formulated for bonding TERM-seal ™ **Ura-Fen Shield TWB** to concrete, masonry and sealing joins and corners of the barrier. It contains 2g/kg bifenthrin. The adhesive must be used when installing TERM-seal ™ **Ura-Fen Shield TWB** to masonry surfaces and is a requirement in the installation procedure of TERM-seal ™ **Ura-Fen Shield TWB**.

Available in convenient standard size 260-gram and large size 750-gram cartridges.

The use of the adhesive does not negate the requirement to nail the barrier to the concrete.

TERM-seal ™ Ura-Fen Shield TWB

APVMA Registration # 64037/47238

TERM-seal ™ Ura-Fen Shield TWB is a triple layer termite and moisture proof sheet barrier. It consists of an open-cell polyurethane matrix sheet, containing the active ingredient (2g/kg) Bifenthrin sandwiched between two untreated polyolefin sheets, each, 150 microns in thickness that act as a water vapour barrier.

- The active ingredient in **TERM-seal ™ Ura-Fen Shield TWB** is uniformly dispersed throughout the polyurethane matrix material which will repel and kill termites.
- The polyolefin top cover sheet is black with lime green printing and the lower sheet is dark grey in colour. It must be installed with the printed side uppermost.
- The surfaces of **TERM-seal ™ Ura-Fen Shield TWB** have been specially treated to aid the adhesion with brick mortar thus preventing brick slippage.
- It is installed in conjunction with **TERM-seal ™ Ura-Fen Adhesive**.
- When properly installed as part of TERMSEAL's Active System, it works by forcing termite activity into the open where it can be detected by regular inspection.

TERM-seal ™ Ura-Fen Shield TWB is used to form a continuous water proof and termite resistant barrier around the cavity perimeter and construction joints of new slab-on-ground structures, and extensions to existing structures, where the concrete slab is acting as a physical barrier to termite entry as per AS 3660.1-2014. In this situation, the concrete slab must be poured in accordance with AS 2870-2011: Residential Slabs and Footings or AS 3600-2018 Concrete Structures recommendations. Refer to these Standards for further information.

TERM-seal ™ Ura-Fen Shield TWB can be installed side or top loaded.

TERM-seal ™ Ura-Fen Shield TWB is manufactured in 50m rolls of 1.8m width and is available off the shelf in 1.8m, 900mm or 300mm rolls. You can also purchase 1.8m rolls and have them slit to custom widths (for a nominal fee).

TERM-seal ™ Multi-Purpose Active Termite and waterproof barrier

APVMA Registration # 62740/43872

This compound is a highly engineered acrylic polymer-based liquid which on curing, contains 0.65g/l Bifenthrin as active constituent and forms a seamless flexible, termite resistant and waterproof membrane.

TERM-seal ™ **Multi-Purpose Active** can be applied by roller, brush or heavy- duty airless spray gun at a rate of 1.5 litres per square metre. Applications are for use on masonry, concrete and fibre board.

TERM-seal ™ **Multi-Purpose Active** is Dark Grey in colour and is supplied in 15 litre (~22kg) pails and has a shelf life of one year when stored in a dry place between 10º and 23º C.

When fluid it can be cleaned with water. After curing, it can be removed by mineral turpentine, Toluol or lacquer thinners. At completion of application, it should be left to cure for a least one-day before tiling or backfilling.

TERM-seal ™ Reo-Band FG

TERM-seal ™ **Reo-Band FG** is a non-woven fiberglass mat, specially manufactured with an emulsifier binder type coating which provides ease of use. Used with the TERM-seal ™ **Sealant Active** to reinforce joints and corners.

Available in rolls of approximately 160m in length and in 100, 130, 205 and 502mm widths.

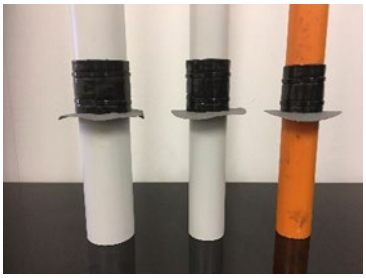
TERM-seal ™ Universal Termite Penetration lock Collars

TERM-seal ™ **Penetration Collars** are manufactured from ABS GP 22 UV-Stabilized plastic. The composition of the product has been NATA tested at 81.6 D shore hardness and complies with Australian Standard AS 3660.1-2014. This means the manufactured collar possesses qualities of strength and hardness without being brittle.

TERM-seal ™ **Penetration Collars** have been appraised by CSIRO and when installed complies with AS3660.1-2014.

Available for service penetration diameter sizes of 40mm, 50mm, 65mm, 80mm and 100mm.

TERM-seal ™ **Annular Collars** are a pre-made "soft" collar which are manufactured from TERM-seal™ PRM Active combined with TERM-seal™ Shield TWB. The annular collars comply with Australian Standard AS 3660.1-2014.



Available for service penetration diameter sizes of 40mm (water) 40mm (electrical), 50mm, 65mm, 80mm and 100mm.

Installation Procedures

Surface Preparation

Correct surface preparation is essential for proper adhesion of all TERMSEAL products and processes. If the surface to be coated is not new or has been cured or contaminated, a hydrocarbon-based solvent must be used. After application of the solvent, immediately scrub down the treated area with a wire brush.

Clean surface of brick course and slab edge using spare brick to remove any excess mortar dags

This is required to be to be done on all older or contaminated, porous and friable surfaces except clean water-resistant plasterboard and must be undertaken prior to the application of **TERM-seal ™ Prime Coat**. Application of the solvent can be by brush, or roller.

Clean excess dust from brick course and slab edge

The solvent is flammable and should be used with adequate ventilation and kept away from heat, sparks and open flames.

Ensure that all surfaces are clean and free of dirt, cracks, gaps and fissures. A spare or broken brick can be used to remove any excess mortar dags from brick course as well as smoothing out any rough sections along slab edge. Use a brush to remove any residual dust or dirt.

Priming

Once proper surface preparation has been completed, **TERM-seal ™ Prime-Coat** is to be applied.

TERM-seal ™ Prime Coat is supplied as a ready to use product.

TERM-seal ™ **Prime Coat** must be applied to all surfaces prior to:

- The first coat of TERM-seal ™ **Multi- Purpose Active**
- Where TERM-seal ™ **Sealant Active** is to be used

This is especially necessary on older or contaminated, porous and friable surfaces, except clean water-resistant plasterboard. Application is by brush, roller or spray gun and has a coverage rate of 10 square meters per one litre, and at normal ambient conditions is touch dry in 10-15 minutes.

TERM-seal ™ **Prime Coat** is available in 4 litre pails and 10 litre buckets.

Offcuts

In line with our environmental policy all offcuts of TERM-seal ™ **Ura-Fen Major**, TERM-seal ™ **Shield TWB and** TERM-seal ™ **PRM Active Cord and Capping Strip** should, where possible, be recycled into the brick cavity of your current or next job.

Inspection Zones and Clearances

An inspection zone is an unobstructed space from finished ground level to the exposed edge of the TERMSEAL termite barrier system.

- On hard landscaping such as paths and pavers the minimum clearance is 25mm
- On soft landscaping such as lawns, gardens and soil the minimum clearance is 40mm
- With undercover verandahs that are constructed against an existing wall the minimum clearance is 20mm. The addition of TERM-seal ™ **Sealant Active** or TERM-seal ™ **Multi- Purpose Active** is a requirement when the clearance is only 20mm.

TERM-seal™ PRM Active Cord & Capping Strip

General Installation

Single course brick or masonry block

Step 1

To prepare the brick course use a brick to remove any excess mortar or dirt by scraping the brick along the top surface of the course. Use a brush to clean away any residual dust or dirt to provide a clean flat surface.

Step 2

Apply a thin coat of TERM-seal ™ **Prime Coat** to brick course to prepare surface for application of TERM-seal ™ **Sealant Active**.

Step 3

Apply a bead of TERM-seal ™ **Sealant Active** along brick course. This bonds the TERM-seal ™ **PRM Active Cord and Capping Strip** to the brick course and ensures it remains in place until such time as the bricklayer returns to install his courses on top.

Step 4

Roll out along the length of the brick course TERM-seal ™ **PRM Active Cord Strip (110mm)**, measure and cut. Ensure that you smooth out any creases while rolling the cord strip out. This will ensure adhesion of the cord strip to the brick course.

Step 5

For engaged piers use TERM-seal ™ **PRM Active Capping Strip (150mm).** Cut to the size of the brick or masonry block and use that cut piece as a template for cutting lengths for all the other engaged piers.

Step 6

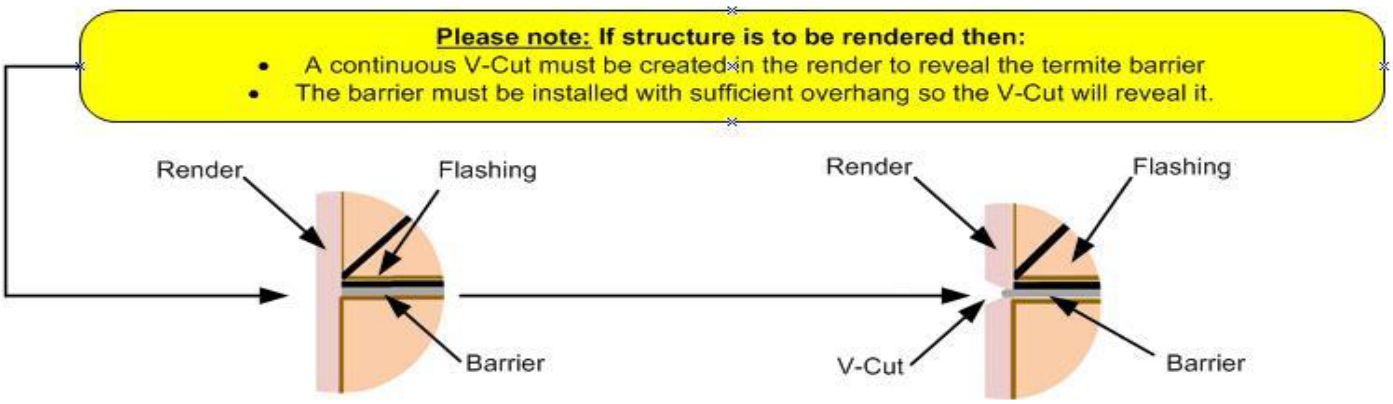
Apply a bead of TERM-seal ™ **Sealant Active** to engaged pier as well as partially on existing cord strip. The 150mm capping strip will cover to brick as well as provide our minimum 50mm overlap required on any joins.

Step 7

Apply cut length of TERM-seal ™ **PRM Active Capping Strip** (150mm) to engaged pier. Repeat process for all other piers.

For larger masonry blockwork we have TERM-seal ™ **PRM Active Cord and Capping Strip** also available in 230mm rolls. The general installation procedures remain the same and can be applied for double brick piers and isolated piers

Note: Any joins of TERM-seal ™ **PRM Active** must have a minimum overlap of 50mm



Termite and Damp-course Protection for Bearer and Joist Construction

Step 1

Use a brick to remove excess mortar, dust and debris from top of the masonry where the capping is to be installed.

Step 2

Apply a thin coat of TERM-seal ™ **Prime Coat** to top face of masonry. If the added protection option is to be installed (see option below) also prime coat the internal vertical edge of the masonry wall down a minimum of 75mm.

Step 3

Apply beads of TERM-seal ™ **Sealant Active** to the top surfaces of the bricks to hold the cord strip in place.

Step 4

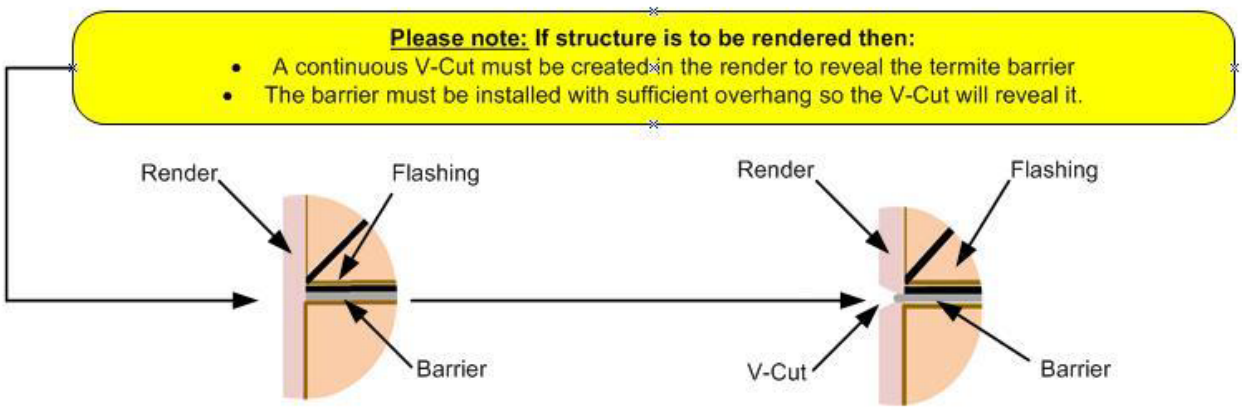
Roll out the TERM-seal ™ **PRM Active** (150mm) with the external edge flush with the outer masonry in a complete and continuous manner. When joining rolls, ensure a 50mm overlap is installed with TERM-seal ™ **Sealant Active** used to bond the join.

Step 5

For engaged pier protection, cut strips of TERM-seal ™ **PRM Active** (150mm), overlap the cord strip over the bricks and bond to the top of the engaged pier using TERM-seal ™ **Sealant Active**.

Ensure there is a 50mm overlap of the capping on the internal wall and piers to act as the inspection/ bridging zone on the internal side.

Note: Use TERM-seal ™ **Reo-Band FG**, cut to size and bedded over all joints to capping strip and engaged piers

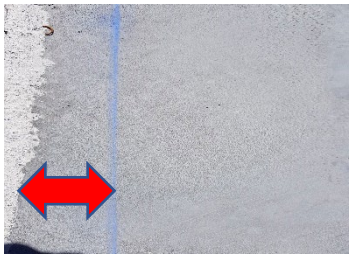


Termite Protection for Slab on Ground with Timber Frame and Clad Walls, using PRM Cap & Cord Strip

When protecting timber framed clad homes the preferred product is **TERM-seal ™ PRM Active Cord & Capping Strip.** The following procedures apply:

Step 1 - Preparation
Using a scraper, wire brush, broom and/or air blower ensure the top of the concrete slab is clean of dirt, mud, clay or dust and free of sharp edges. Check slab edge for any areas that require repairs and repair using approved techniques. Consult with site supervisor about repair techniques.

Step 2
Flick a chalk line 50 mm from the outside edge of the concrete floor slab. This will ensure you are not impeding on the area that the builder will require to align his frame.



Step 3
Apply a thin coat of **TERM-seal ™ Prime-Coat** to top face of concrete floor slab masonry from the outer edge to the 50mm chalk line. Allow approximately 15 minutes for the Prime Coat to dry.

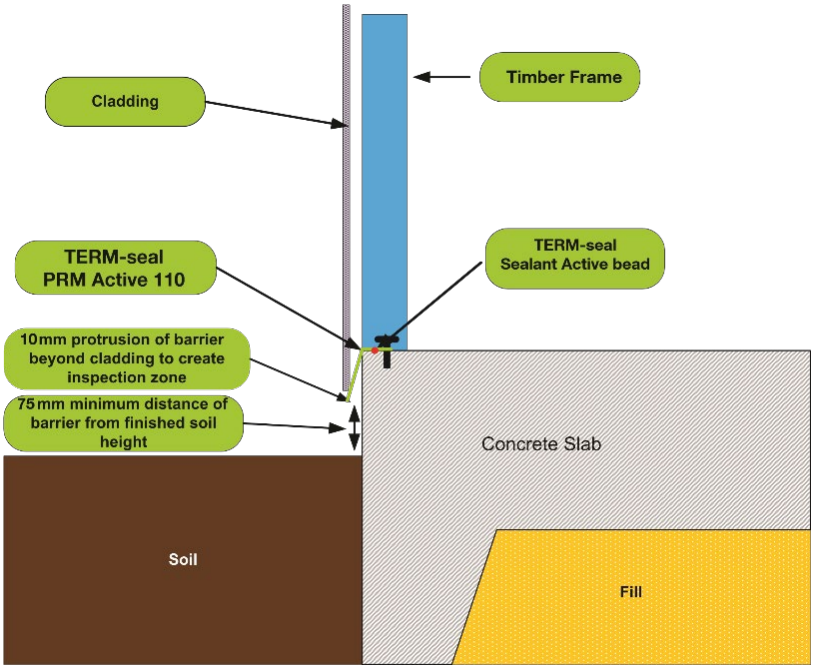
Step 4
Apply an 8mm bead of **TERM-seal ™ Sealant Active** to the top surfaces of the concrete floor slab between the outside edge of the slab and the 50mm chalk line.

Step 5

Roll out the TERM-seal ™ **PRM Active** (110mm) with the internal edge flush with the 50mm chalk line in a complete and continuous manner.

When joining rolls, ensure a 50mm overlap is installed with TERM-seal ™ **Sealant Active** used to bond the join.

TERM-seal ™ PRM Active 110
Installed on cladded wall with timber frame construction to meet AS3660.1-2014



Note: It is important that you confer with the builder about how far down the slab edge the cladding is to be finished. This will determine what width of TERM-seal ™ PRM Active you will use. You should have 10mm of the TERM-seal ™ PRM Active protruding beyond the cladding.

Landscaping heights should also be considered, that is on hard landscaping such as paths and pavers the minimum clearance is 25mm and on soft landscaping such as lawns, gardens and soil the minimum clearance is 40mm

PRM Active Capping for Cavity Protection

The prescribed method for the installation of **TERM-seal ™ PRM Active Capping** cavity protection is to utilize the *"Side Loaded"* method.

*Figure 1 Side-Loading **TERM-seal ™ PRM Active Capping***

TERM-seal ™ PRM Active Capping for Cavity Protection uses 200mm wide roll of **TERM-seal ™ PRM Active Capping** and must be adhered and nailed to the slab edge. The following procedure is using **TERM-seal ™ PRM Active Capping** in conjunction with **TERM-seal ™ Sealant Active** however it is permissible to use **TERM-seal ™ Multi-Purpose Active** or **TERM-seal ™ Ura-Fen Adhesive** (or a combination of all three) as the bonding agent between the **TERM-seal ™ PRM Active Capping** and the slab edge.

Step 1.

Ensure the slab rebate edge and the top surface of the bricks are clean and free of foreign materials such as mortar droppings and dirt. A wire brush, common brick and air blower are ideal for cleaning the surfaces. The surface needs to be smooth and dry before installation begins.

When cleaning the bricks and slab edge take note of any areas of the slab edge that will require repairs. This could be due to honeycombing, jack-hammering or other slab edge imperfections.

Sections that require repairs must be treated with **TERM-seal ™ Prime Coat, TERM-seal ™ Sealant Active, TERM-seal ™ TM Multi-Purpose Active** and **TERM-seal ™ Reo-Band FG** in the prescribed procedure for slab repairs.

Step 2.

When clean and any slab repairs have been affected, apply **TERM-seal ™ Prime Coat** to the point of run off to the complete slab rebate edge perimeter. **TERM-seal ™ Prime Coat** is applied by brush, roller or spray application.

Step 3.

Apply a continuous 8mm-10mm wide bead of **TERM-seal ™ Sealant** Active to the edge of the slab rebate surface with cartridge gun or spatula.

It is important that you position the bead of **TERM-seal ™ Sealant Active** correctly so the bead is located where the concrete pins will be installed

> **Note:** *50mm is the minimum width that the* **TERM-seal ™ PRM Active Capping** *across the slab edge.*

It is permissible to use **TERM-seal ™ Multi-Purpose Active** or **TERM-seal ™ Ura-Fen Adhesive** to adhere the **TERM-seal ™ PRM Active Capping** to the slab edge. If using **TERM-seal ™ TM Multi-Purpose Active**, there must be one thick continuous coating applied before placing the **TERM-seal ™ PRM Active Capping**.

Note: *If you elect to use* ***TERM-seal ™ Ura-Fen Adhesive*** *the use of* ***TERM-seal ™ Prime-Coat*** *is not required.*

Step 4.
Starting at an external corner, roll out approximately 1 lineal metre of the 200mm wide **TERM-seal ™ PRM Active Capping**, ensuring the outside edge (inspection zone) is flush with the outside edge of the brickwork in both directions.

Note: *The* **TERM-seal ™ PRM Active Capping** *must be flush with the outside edge of brickwork or block work to provide continuous damp-course and maintain a visual*

Secure the corner in position with a concrete nail to prevent movement away from the corner while continuing with the installation.

Step 5.
Position the slab edge side of the **TERM-seal ™ PRM Active Capping** downwards until it is below the level of the bottom wall plate, crease the corner with the back edge of your scissors or similar narrow blunt tool (***it must be a blunt edge to ensure the capping is not cut***) and roll/push it into the sealant with a brush, roller or by hand.

Step 6.
Once the **TERM-seal ™ PRM Active Capping** has been positioned and groomed into place, nail off at 1 metre intervals around the entire perimeter. The nails are to be within the top 30mm of the **TERM-seal ™ PRM Active Capping** and be located within the Sealant/Multi-purpose/Adhesive band.

If you elected to install the **TERM-seal ™ PRM Active Capping** using **TERM-seal ™ Ura-Fen Adhesive** nail spacings must be at no more than 300mm intervals. If using **TERM-seal ™ Multi-Purpose Active** nail spacings are as per the **TERM-seal ™ Sealant Active** procedure i.e. 1 metre intervals.

Cover each concrete nail with a liberal coat of **TERM-seal ™ Multi-Purpose Active**.

External Corner Procedure.

Part 1
Once the **TERM-seal ™ PRM Active Capping** is positioned correctly with the outside edge (inspection zone) aligned with the outside edge of the brickwork and nailed in position to prevent any movement, make a vertical cut from the top of the **TERM-seal ™ PRM Active Capping** to the top of the brickwork adjacent to the slab edge. This will create a flap which will lay on the top of the opposite brickwork to attach to the next stage of the perimeter.

Correct Position of TERM-seal™ PRM Active Capping

Vertical Cut Adjacent to The Slab Edge

Created Flap placed on top of brick course

Part 2

Align the **TERM-seal ™ PRM Active Capping** with the outside edge (inspection zone) of the brickwork and overlap the previous flap by a minimum of 50 mm. Nailed in position to prevent any movement, make a horizontal cut along the fold line to the slab edge. This will also create a flap that will lay flat around the corner. Apply **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or **TERM-seal ™ Multi-Purpose Active** to the flap and the overlap. Nail off to complete the external corner.

Horizontal Cut

*Apply **TERM-seal Adhesive, TERM-seal ™ Sealant Active** or **TERM-seal ™ Multi-Purpose Active***

Nail off Flap

Apply ***TERM-seal Ura-Fen Adhesive, TERM-seal ™ Sealant Active*** *or* ***TERM-seal ™ Multi-Purpose Active*** *to Perimeter Overlap*

Completed External Corner

Internal Corner Procedure.

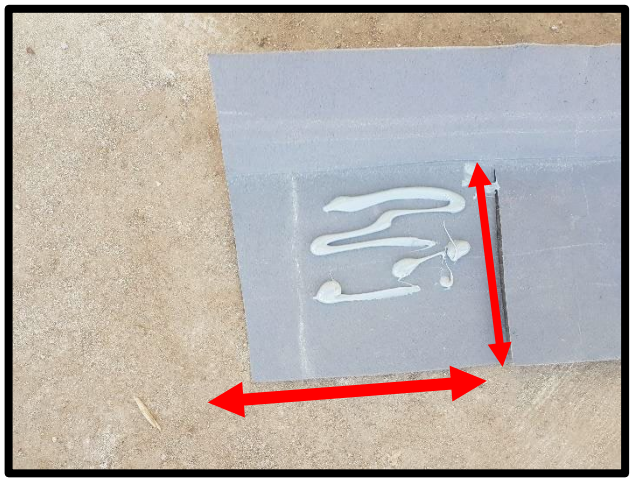
Pre-make the internal corner to ensure the corner is tight-fitting and completed easily and thoroughly.

Pre-Made Corner Procedure

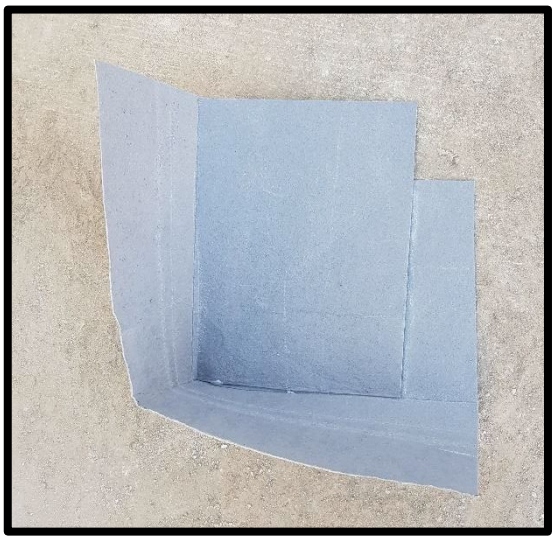
1. Cut a piece of **TERM-seal ™ PRM Active Capping** 300mm long by 200mm wide.

2. Make a cut 150mm in from one edge and 150mm deep from the width of the **TERM-seal ™ PRM Active Capping.**

3. Apply a liberal amount of **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or **TERM-seal ™ Multi-Purpose Active** to the left-hand flap



4. Fold right hand flap onto left hand flap to produce a right-angle corner, apply weight until the **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or **TERM-seal ™ Multi-Purpose Active** has cured.



Installing Pre-Made Corner

Part 1
Cleaning the internal corner is a necessity so the corner fits snuggly against the slab edge. The cleaning should include chiseling off any concrete dags that are created by the concrete form work and filling any voids with **TERM-seal ™ Sealant Active** and **TERM-seal ™ Reo-Band FG**. All slab repairs must be completed as stipulated in the procedures for slab repairs Section of this Manual.

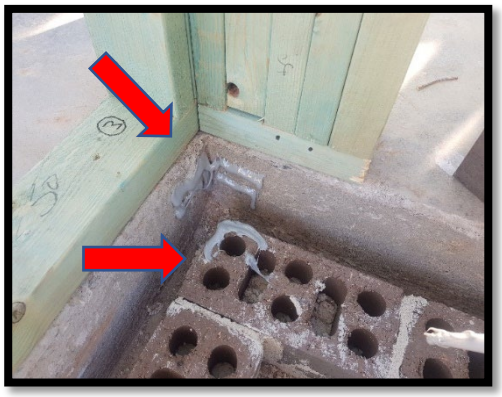
Part 2
Once the corner preparation is completed, apply four (4) 8mm – 10mm beads of **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or **TERM-seal ™ Multi-**

Purpose Active to the slab edge 150mm either side of the corner, ensuring there is a vertical 10mm x 50mm long bead in the corner itself.

Apply a bead of TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive or TERM-seal ™ Multi-Purpose Active on top of the brickwork to hold the pre-made corner in place.

Part 3

Place the pre-made corner into the slab edge corner making sure the it fits securely into the 90° angle.



Nail into position on the slab edge on both sides of the corner. Coat the nail heads with TERM-seal ™ Multi-Purpose Active coating.

Part 4

Complete the remaining perimeter as per the normal procedures ensuring a full overlap is used onto the internal corner. Use TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive or TERM-seal ™ Multi-Purpose Active between the internal corner and the perimeter TERM-seal ™ PRM Active Capping

PRM Active Capping Joining Procedure

When joining **TERM-seal ™ PRM Active Capping**, in a side load cavity installation to a new roll, apply a minimum of three (3) 8mm – 10mm beads of **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or a liberal coating of **TERM-seal ™ Multi-Purpose Active** to the full width (200mm) to the last 50mm of the original roll. Place the new roll of **TERM-seal ™ PRM Active Capping** over the original roll making sure there is a minimum 50mm overlap.

You must ensure that there is complete contact between the two overlapped rolls on both the vertical and horizontal faces.

Nail off the joint between the existing and new roll of **TERM-seal ™ PRM Active Capping** to the slab edge.

Place a brick over the joint on the horizontal surface until the **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or **TERM-seal ™ Multi-Purpose Active** has cured.

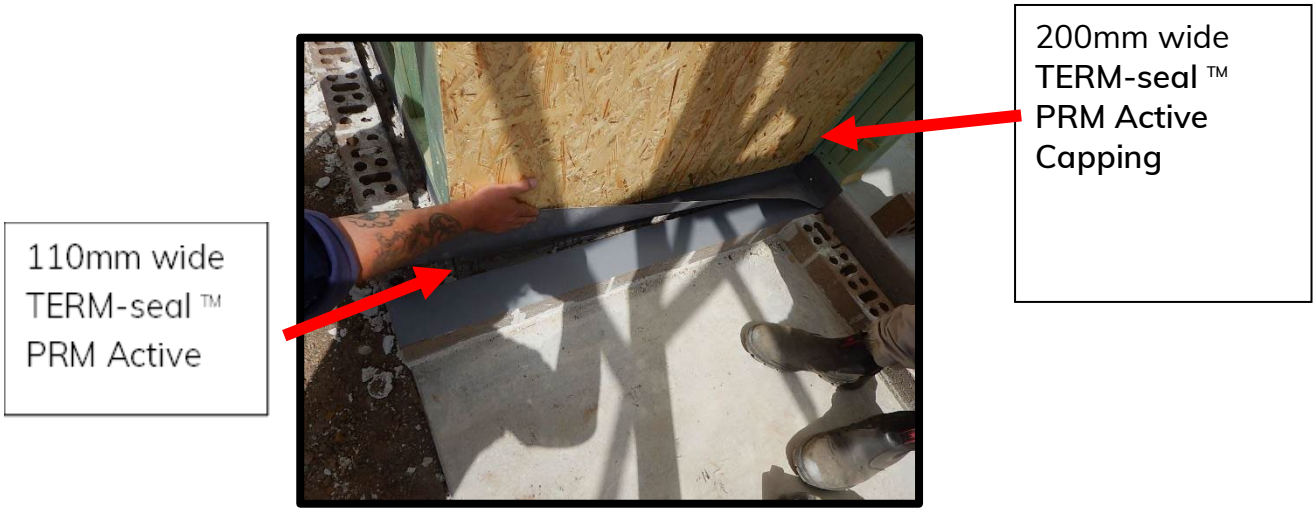
Additional Information

There may be some instances where 200mm wide **TERM-seal ™ PRM Active Capping** may not be wide enough to achieve the minimum 50mm width against the slab edge and still reach the external face of the brick edge (inspection zone). Usually this will be due to the cavity being wider than the normal 40mm.

If this situation occurs, use whichever of these solutions is appropriate:

1. Use the next size up of **TERM-seal ™ PRM Active Capping** -230mm **TERM-seal ™ PRM Active Capping.**

2. Use a strip of 110mm **TERM-seal ™ PRM Active Capping** on the brick surface and then install the 200mm **TERM-seal ™ PRM Active Capping** over the top. There must always be a minimum 50mm overlap.



3. Apply an 8mm – 10mm continuous bead of **TERM-seal ™ Sealant Active, TERM-seal ™ Adhesive** or thick coating of **TERM-seal ™ Multi-Purpose Active** to the inner edge of the 110mm **TERM-seal ™ PRM Active Capping.**

8mm – 10mm continuous bead of **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** or thick coating of **TERM-seal ™ Multi-Purpose Active.**

4. Completed extension of the 200mm 110mm wide **TERM-seal ™ PRM Active Capping** using 110mm wide **TERM-seal ™ PRM Active Capping**

While the '*side-loaded*" method for this perimeter install is the prescribed method, a "*top-load*" install, where the capping is placed on the top of the slab and runs down across the cavity before the wall framing is erected, is acceptable.

This "*top-load*" method will require a custom-cut width, depending on the site situation, because it must be continuous from under the frame to the external face (inspection zone) of the brickwork.

Final Quality Inspection

All TERMSEAL installations should have a final quality inspection.
The finished installation inspection should pay special attention to the back of all internal corners. If, on this inspection you find that there are areas of the 110mm wide **TERM-seal ™ PRM Active Capping** install that have not been adhered to the slab edge correctly, you can apply a further bead of **TERM-seal ™ Sealant Active, TERM-seal ™ Ura-Fen Adhesive** by inserting the nozzle of the cartridge between the slab edge and the 110mm wide **TERM-seal ™ PRM Active Capping (figures 1,2,3 & 4)**

Figure 1

Figure 2

Figure 3

Figure 4

Completed perimeter using 200mm wide TERM-seal ™ PRM Active Capping

TERM-seal ™ Ura-Fen Major

TERM-seal ™ Ura-Fen Major can be applied to a brick cavity to form a full and continuous termite and waterproof barrier.

TERM-seal ™ Ura-Fen Major *must* be stored in a cool dry place out of direct sunlight. For best results contents should be dispensed between 19°C – 29°C

Please Note: When dispensing **TERM-seal ™ Ura-Fen Major** you **MUST** wear eye protection!

The following installation process is for dispensing **TERM-seal ™ Ura-Fen Major** using disposable 300ml or 750ml Part A & Part B cartridges.

Step 1

Clean dirt, mortar and any other debris from brick course and cavity. Clear any building rubble that will hinder free movement while you move around the building perimeter.

Step 2

Prepare brick course and slab edge with a thin coat of **TERM-seal ™ Prime-Coat** either by brush, roller or small spray gun. This provides a foundation to ensure proper bonding of TERMSEAL products.

Note: Ensure equipment is washed out in water quickly and thoroughly as this dries quickly.

Step 3

Install Keeper strip to brick cavity. This provides a platform for **TERM-seal ™ Ura-Fen Major** to be dispensed onto. Roll out Keeper strip (corrugated side facing up) the length of the brick course and cut to size. Using the back edge of the scissors, drag along the center of the keeper strip the entire length. This provides a fold point when inserting into cavity.

Step 4
Fold Keeper strip into V shape and insert into cavity.

If only treating a door way threshold, ensure that the ends of the keeper strip are folded up to prevent run off into the cavity.

Step 5
Ensure top edge of keeper strip is approx. 20mm down from top edge of brick course and that length of Keeper strip is level to avoid pooling of TERM-seal ™ Ura-Fen Major.

Note: The Minimum thickness of the finished barrier must be 40mm.

Step 6
Preparing the cartridges for use

Unscrew the cap and remove the bungs ensuring the surfaces of each half are clean and do not cross contaminate.

Insert the black orifice restrictor then fit the mixing nozzle over the top and screw the outer black cap down tightly over both items.

The cartridge is now ready to be used and can be inserted into either the manual handgun or the air operated bi-mixer gun



Note: It is important to keep the cartridges in a cool dry area while you do the other preparatory work to the cavity area

Step 7

If using an air operated gun make sure compressor is running and has a minimum of 60 PSI.

Connect air hose to air operated gun and retract plunges so cartridge can be inserted.

If using manual gun depress lever to retract plunges in the same manner.

Hold gun upright and insert cartridge. Once in place it will be necessary to depress the plunges a little bit to hold cartridge firmly in place. Continue to hold gun in an upright position until you are ready to start dispensing into the cavity

Step 8

At the start of your run, angle the gun down into the cavity on a 45° degree angle and depress trigger on gun. If you're using a manual gun this requires constant depressing of trigger.

In a slow fluid motion gradually walk along cavity length ensuring that enough product has been applied to Keeper strip. This is greatly dependent on width of cavity and may require an initial test area to determine an approx. amount required.

Step 9

After approx. 15 seconds the combined liquid will undergo an exothermic reaction where the material will expand into cracks and fissures until maximum resistance is met then rises vertically. This chemical process allows the product to capillary into the surface of both the brick course and the slab edge, binding everything together and creating a permanent barrier across the cavity.

Note: Adjusting your walking speed while dispensing will determine amount of product dispensed and thus the finished height of the foam. Ideal finished foam height should be just above the brick course height. This way you will be able to achieve maximum length of cavity treatment before having to change cartridges.

Step 10

After approx. 20 minutes (depending on climatic conditions) The **TERM-seal ™ Ura-Fen Major** should be cured. Test this by using your finger and poking, If the outer crust is hard it should be ready to trim, if it still feels spongy then allow more time to fully cure.

Using a wood saw, run the saw flat along the brick course and cut the excess foam level to the height of the brick course. You will find that some of the foam will be still attached to the slab edge. Using the saw gently bend saw upwards which should snap foam off from slab edge.

Remove any excess foam still attached to brick course or slab edge with the back edge of saw and brush clean.

Note: Ensure all off cuts are collected and recycled into the cavity on the next job or dispose of in the regulatory manner for your state or territory.

Step 11

Roll out the required length of TERM-seal ™ **PRM Active Cord Strip** along brick course, measure and cut.

Step 12

Place cut length of TERM-seal ™ **PRM Active Cord Strip** on ground and apply TERM-seal ™ **Sealant Active** to brick course. For areas other than across doorway thresholds you only need sufficient amount to hold the cord strip in place until such time as the brick layer returns to finish the rest of his bricklaying. For doorway thresholds we require a liberal amount of TERM-seal ™ **Sealant Active** be applied to that whole section of brick course.

Due to this area only having tiles or header bricks laid on top we need to ensure that the TERM-seal ™ **PRM Active Cord Strip** is properly bonded to the brick course as this will be the surface that the tiles will be adhered to.

Note: Advise the tiler not to use solvent based adhesive to secure tiles to TERM-seal ™ PRM Active Cord Strip

Step 13

Depending on climatic conditions you may roll up the cut length of cord strip and gradually roll and smooth it out as you apply TERM-seal ™ **Sealant Active**, so it can adhere before curing.

Step 14

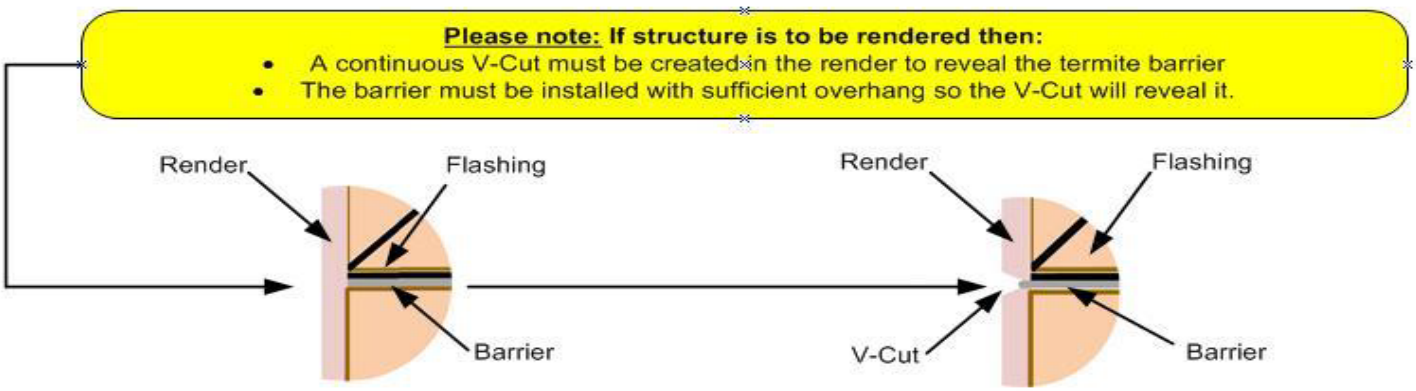
To finish off we apply a coat of TERM-seal ™ **Multi-Purpose Active** and paint over the cured TERM-seal ™ **Ura-Fen Major** in the cavity and up the slab edge approx. 40mm.

This completes the system with a Termite and waterproof membrane and satisfies the criteria for a damp-proof course across the threshold.

Inspection Zones and Clearances:

An inspection zone is an unobstructed space from finished ground level to the exposed edge of the TERMSEAL termite barrier system.

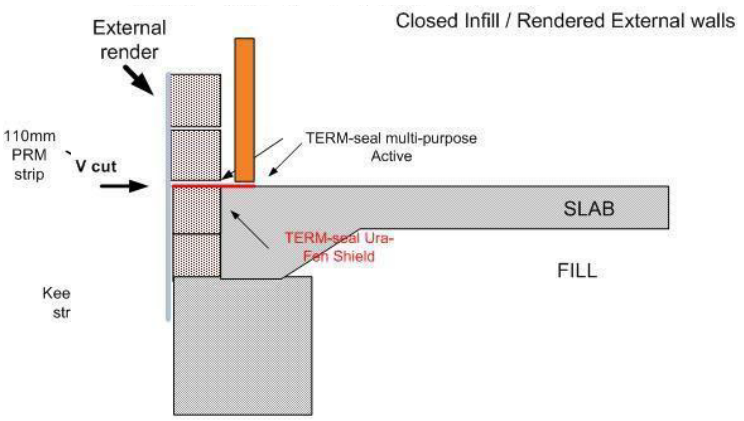
- On soft landscaping such as lawns, gardens and soil the minimum clearance is 75mm
- On hard landscaping such as paths and pavers the minimum clearance is 40mm
- With undercover verandahs that are constructed against an existing wall the minimum clearance is 20mm. The addition of TERM-seal ™ **Sealant Active** or TERM-seal ™ **Multi-Purpose Active** is a requirement when the clearance is only 20mm.

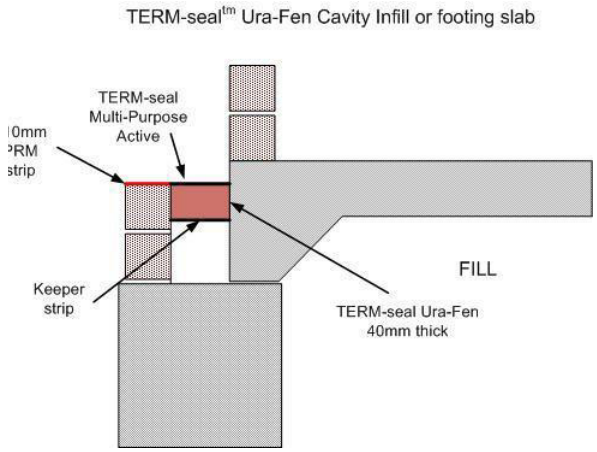


TERM-seal ™ Ura-Fen Major Perimeter System Diagrams

Alternative Perimeter Installation Scenarios

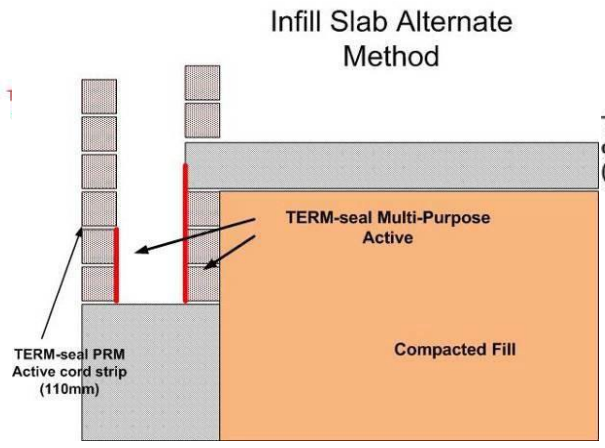
Brick Infill with and without reo-bar

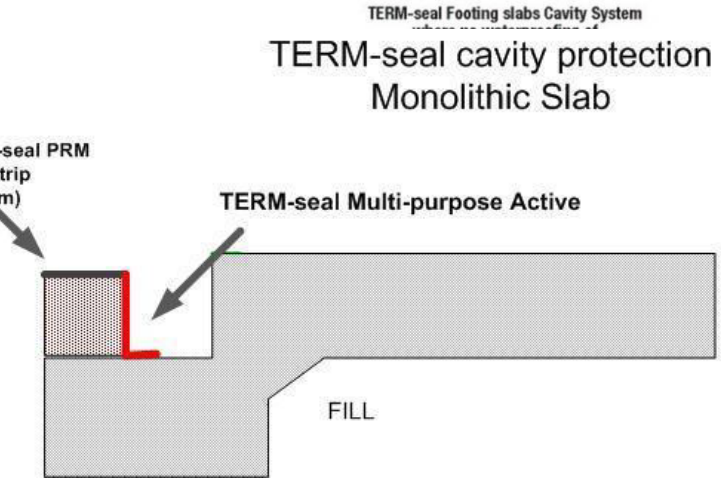




TERM-seal Perimeter system for Footing Infill Slab with or without vertical reo-bars

Alternative method for infill and footing slab





Termite Protection for Backfilled Walls

This procedure is for internal application only and does not provide any waterproofing protection.

Step 1

If the surface to be coated is not new or has been cured or contaminated, a hydrocarbon-based solvent must be used. After application of the solvent, immediately scrub down the treated area with a wire brush. This is required to be done on all older or contaminated, porous and friable surfaces except clean water-resistant plasterboard. Application of the solvent can be by brush, or roller.

Note: The solvent is flammable and should be used with adequate ventilation and kept away from heat, sparks and open flames.

Ensure surface is clean and free of excess mortar particles, dirt and dust.

Step 2

Apply TERM-seal ™ **Prime-Coat** to all wall and joint areas prior to the first coat of TERM-seal ™ **Multi-Purpose Active** or TERM-seal ™ **Sealant Active**.

Application is by brush, roller or spray gun and has a coverage rate of 10 M^2 per litre and at normal ambient conditions is touch dry in 10-15 minutes.

Step 3

Apply one coat of TERM-seal ™ **Multi-Purpose Active** approx. 150mm wide across any joins or corners and immediately lay TERM-seal ™ **Reo-Band FG** 130mm on top.

Apply a second coat of TERM-seal ™ **Multi-Purpose Active** to seal join or corner. This second coat should fully cover the TERM-seal ™ **Reo-Band FG**. This will ensure no separation of membrane from structural movement.

Step 4

Apply a coat of TERM-seal ™ **Multi-Purpose Active** to entire surface of wall to be treated. Allow to dry.

Step 5

Apply a second coat of TERM-seal ™ **Multi-Purpose Active** to wall to complete treatment.

At completion of application, it should be left to cure for a least one day.

Note: When fluid TERM-seal ™ **Multi-Purpose Active** can be cleaned from equipment with water. After curing, it can be removed by mineral turpentine, Toluol or lacquer thinners.

Termite and Water-Proof Protection for Backfilled Walls

This procedure is for external (positive side of wall) application and will provide Termite and Water-Proofing protection.

TERM-seal ™ **Multi-Purpose Active** meets AS 3740-2010 and AS/NZS 4858-2004 when applied as a wet area membrane in internal and external applications.

N.B. The testing of this product as a water-proofing compound was undertaken by CSIRO Manufacturing & Infrastructure Technology and passed all tests required to meet Australian Standards' compliance.

This testing and compliance is outside the Scope of Codemark Certificate CM40017.

Step 1

If the surface to be coated is not new or has been cured or contaminated, a hydrocarbon-based solvent must be used. After application of the solvent, immediately scrub down the treated area with a wire brush. This is required to be done on all older or contaminated, porous and friable surfaces except clean water-resistant plasterboard. Application of the solvent can be by brush, or roller.

Note: The solvent is flammable and should be used with adequate ventilation and kept away from heat, sparks and open flames.

Step 2

Ensure surface is clean and free of excess mortar particles, dirt and dust.

Core filling of blockwork must be completed and levelled off flush with the top surface of last block. If top surface is uneven it will be necessary to grind flat or fill blockwork with sand and cement to achieve desired surface.

Vertical expansion joints within the blockwork require addition attention.

Firstly, remove the expansion foam to a depth of 50mm from the side of the wall to be treated. Grout into this area a sand and cement mix and make level with the face of the block wall. Treatment of the vertical expansion joint is as per steps 3 to 7

Cracks, crevices and missing mortar joints to face of wall will also require attention with sand cement mix or TERM-seal ™ **Multi- Purpose Active** and TERM-seal ™ **Reo-Band FG**. prior to any applications.

Excess water and moisture from core filling will need to evaporate from blockwork prior to termite and water-proof treatment.

Step 3

Apply TERM-seal ™ **Prime Coat** to all wall surfaces, top of blocks and joint areas prior to the first coat of TERM-seal ™ **Multi-Purpose Active** or TERM-seal ™ **Sealant Active.**

Application is by brush, roller or spray gun and has a coverage rate of 10 M^2 per litre, and at normal ambient conditions is touch dry in 10-15 minutes

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Step 4

Apply one coat of TERM-seal ™ **Multi- Purpose Active** approx. 150mm wide across any joins or corners and immediately lay TERM-seal ™ **Reo-Band FG** 130mm on top.

Apply a second coat of TERM-seal ™ **Multi-Purpose Active** to seal join or corner. This will ensure no separation of membrane from structural movement.

Step 5

Apply one coat of TERM-seal ™ **Multi-Purpose Active** across the top of the block work and immediately lay TERM-seal ™ **Reo-Band FG** 205mm on top.

Apply a second coat of TERM-seal ™ **Multi-Purpose Active** to seal the entire top of the blockwork. This will ensure, after the final three coats, that there will be no water moisture penetration through the top of the blockwork

Step 6

Apply a coat of TERM-seal ™ **Multi-Purpose Active** to entire surface of wall to be treated including the bottom joint, corners and top of blocks.

This will give you one full coat on the wall and three coats on all the joints and block tops.

Allow to dry.

Step 7

Apply a second and third coat of TERM-seal ™ **Multi-Purpose Active** to the entire wall including application to all joints and block tops allowing drying time between coats.

At completion of applications there should be three coats to walls and five coats to all joints and block tops, this should achieve a minimum of 2mm thickness on the walls and 4mm on joints.

Before backfilling, the wall should be left to cure for a least one day.

Note: Advise builder that the treated wall will require the placement of core flute (after the treatment has cured and dried) before backfilling so as to protect the treatment.

Slab edge perimeter treatment

The method uses **TERM-seal™ Multi-Purpose Active** as a perimeter treatment to the slab edge once the formwork has been removed.

The slab should have been installed to comply with AS 2870 or AS3600 for monolithic residential concrete structures.

The slab edge should be prepared by using a part brick or block or a broad cold chisel to make the surface as even as possible. The surface must also be dry and clean.

If necessary, any significant holes or gaps should be prepared with **TERM-seal™ Prime Coat** and then when dry, the gap/hole is filled with **TERM-seal™ Sealant Active**. Cover the top of the gap/hole with **TERM-seal™ Reo-band FG** pushed into the Sealant Active.

The first application coat is **TERM-seal™ Prime Coat** as a liberal (without run-off) application. This should be allowed to dry before the next coat.

The next coat is of **TERM-seal™ Multi-Purpose Active** and should be applied by working it well onto the surface with a roller or brush to provide complete & continuous coverage.

Allow this first coat to get touch-dry before applying the second coat. The aim is to achieve a coverage which is at least 1.3 mm thick when finished, so this second coat needs to be very liberal in the amount applied but because it is on a vertical surface, don't allow it to slump or run down the vertical face.

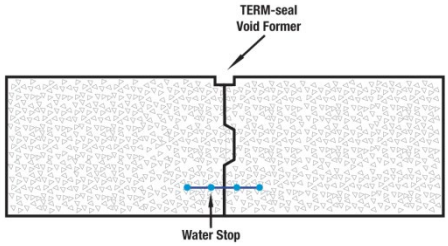
Two coats as thick as possible without running/slumping should be applied and then a third coat for this type of treatment because it is on a vertical not horizontal surface to ensure that the treatment is complete and continuous and at least 1.3mm thick.

Construction Joints

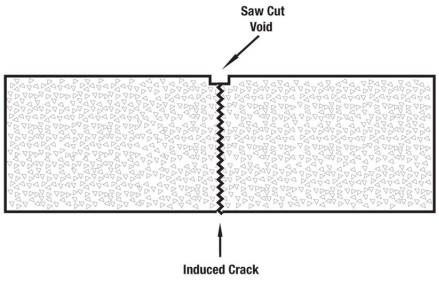
Where joints are used in the slab, ensure the TERM-seal ™ ***"void former"*** is installed.

This is a self-adhering strip of inexpensive polyethylene material that is fitted to the top of all joints and level at the top of former with finished concrete height.

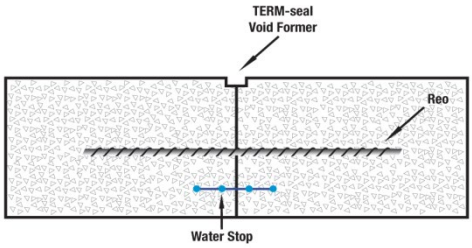
After the concrete is poured and finished, the "void former" can be easily removed, forming a void of 20mm x 10mm to the surface of the joint.



Key Joint with Void



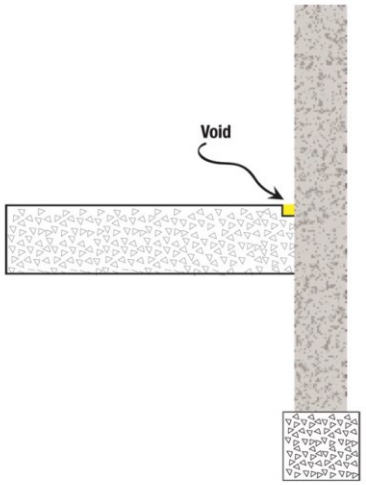
Saw Cut Joint with Void



Butt Joint with Void

Note: *Saw cut joints are required to have a small bead of silicon inserted into the bottom of the saw cut prior to the application of the* TERM-seal ™ Sealant Active

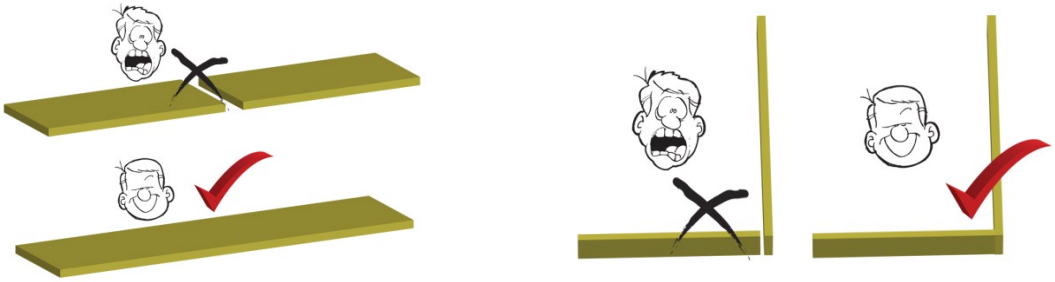
This will prevent the TERM-seal ™ Sealant Active *from "slumping out" should the be an excessive crack below the saw cut joint*



Side View to Wall

Void Former Placement

Void formers are attached to the masonry or concrete with the self-adhesive glue on one side of the void former. This will hold into place perfectly without disturbance from other trades. It is important that TERM-seal ™ ***"void former"*** is installed correctly.



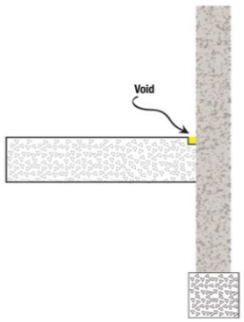
Correct void former installation

Treatment of Joints with TERM-seal ™ Sealant Active

1. Ensure the joint is clean to 50mm either side.

2. Prime the void using **TERM-seal™ Prime Coat** and Fill the void completely with TERM-seal ™ **Sealant Active**. Ensuring the sealant is applied continuous with no gaps or air bubbles.

3. Ensure the sealant is slightly higher than the concrete to allow for a small amount shrinkage with curing.



Joints covered by Walls or Floor Coverings

If the joint or any part of the joint is to be concealed with a wall or other, Apply **TERM-seal ™ Multi-Purpose Active** to the surface ensuring the coating is continuous and 40mm either side of the joint. *(see figure. 9)*

Apply **TERM-seal ™ Reo-Band FG** reinforcing band to the entire length where the joint will be covered. It is imperative that the construction joint treatment continues down the slab rebate and slab face to the bottom of the footing.

Roll the **TERM-seal ™ Reo-Band FG** reinforcing band into the surface coating, to ensure there are no air pockets and apply a continuous coat of **TERM-seal ™ Multi-Purpose Active** over.

When planning construction, it is a requirement for the use the closed cell polyethylene void former be used in the expansion joints to control the depth of the **TERM-seal ™ Multi-Purpose Active** and use the same procedures as construction joints

Interior joints where carpet or floor covering is to be installed must be treated with this method. This will prevent wear lines to floor coverings

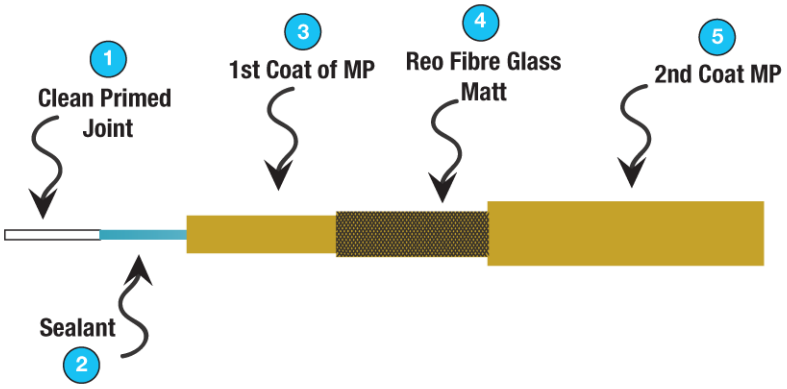


Fig.1 *ing*

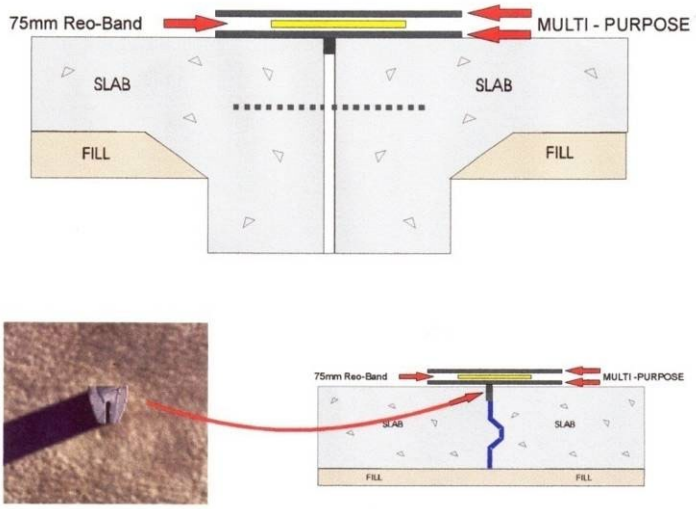


Fig 13. Side view of joint treatment where covered by walls or floor

Cracks and Expansion Joints for existing buildings

Where carpet or floor tiles etc. are to be installed

Small hairline surface shrinkage cracks can be filled by the first application of TERM-seal ™ **Multi-Purpose Active**.

For cracks over 2mm wide, the following preparation is required:

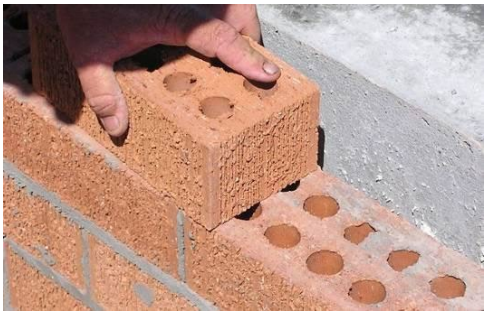
Rout, prime and fill the cracks with TERM-seal ™ **Sealant Active** and cover with TERM-seal ™ **Multi-Purpose Active** then apply reo-band and a second coat of TERM-seal ™ **Multi-Purpose Active**

TERM-seal ™ Ura-Fen Shield TWB

General Procedures

Side Load Method

Step 1



Ensure area of the slab in which the barrier is to be installed is clean and free of dirt, cracks, gaps and fissures. A wire brush or a common brick are ideal for cleaning the surfaces.
Also make a note of any step downs for split level construction that, will require treating with TERM-seal ™ **Multi-Purpose Active** and possibly TERM-seal ™ **Reo-Band FG** in the cavity brickwork if infill construction.

Step 2

Apply an 8-10mm continuous bead of TERM-seal ™ **Ura-fen Termite-resistant Adhesive** to the top 40mm of the rebate edge surface.

Step 3

Roll out the TERM-seal ™ **Ura-Fen Shield TWB**, ensuring, the black printed side is uppermost, and TERM-seal ™ **Ura-Fen Shield TWB** is flush with the outside edge of brickwork or block work to provide a continuous termite barrier and maintain a visible inspection band.

Press firmly in a sideways action over the Adhesive, to ensure a good bond to the TERM-seal ™ **Ura-Fen Shield TWB** and position correctly before pinning with masonry nails.

Step 4

Insert (PDC 19mm) concrete nails, using a suitable nail gun, at no more than 300mm intervals around the entire barrier. Ensure pins/nails are fired through TERM-seal ™ Shield TWB and TERM-seal ™Ura-fen Termite-resistant Adhesive bead to retain efficacy of system.

Step 5 Corners (for side loaded Ura-Fen Shield)

External Corner:

Apply a cut through TERM-seal ™ Ura-Fen Shield TWB adjacent to slab rebate edge as depicted.

Trim off TERM-seal ™ Ura-Fen Shield TWB in line with end of brick course.

Position adjacent length with a 50mm overhang and nail to slab edge. Cut a slit along right angle fold to allow blanket to be folded over. Apply TERM-seal ™ Ura-Fen Termite-resistant Adhesive to underside of 50mm overhang

Apply TERM-seal ™ Ura-Fen Termite-resistant Adhesive to underside of flap, bend round corner and secure in place with builder's tape and nail off.

Tape off other joins to complete the corner.

Internal Corner:

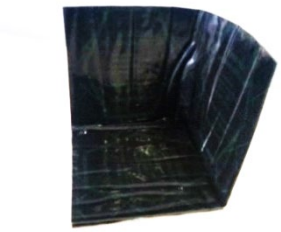
Internal Corners can be pre-made using the following procedures

1. Cut a piece of 300mm square of TERM-seal ™ Ura-Fen Shield TWB

2. 150mm from one edge cut a slit 150mm deep

3. Apply TERM-seal ™ **Ura-Fen Adhesive** to bottom left hand side flap

4. Place right-hand side flap on top of left-hand side flap, weigh down and allow Adhesive to dry



NOTE: This internal corner can also be used for a top load installation by cutting a further slit 150mm in from one edge and 50 mm down from the top.

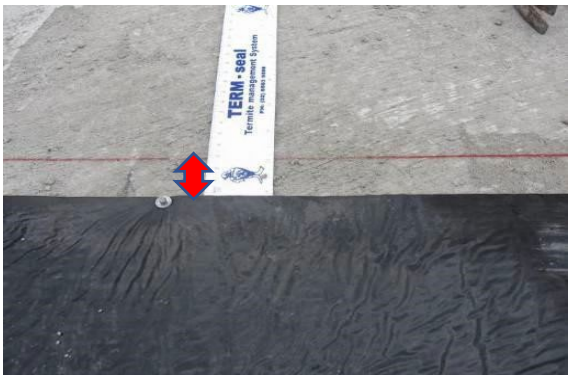
The two newly created flaps are the place on top of the slab.

Top Load Method

An alternative method of installing **TERM-seal ™ Ura-Fen Shield TWB** is to utilize the "Top-Load" method. This method can only be used when no frames or other constructions have been installed on the top of the slab to be treated.

The installation procedures are the same for side loading. When nailing the Top load method, the **TERM-seal ™ Ura-Fen Shield TWB** must be nailed at intervals no more than 500mm spacings. Ensure pins/nails are fired through **TERM-seal ™ Shield TWB** and **TERM-seal ™ Ura-fen Termite-resistant Adhesive** bead to retain efficacy of system.

Ensure the top of the concrete is clean and free of sharp edges. Load the **TERM-seal ™ Ura-Fen Shield TWB** strip cut to a width suitable as to extend from the top position (30mm from the internal frame line), to the outer edge of the brick course, allowing enough slack to fold down the slab edge and across the cavity.



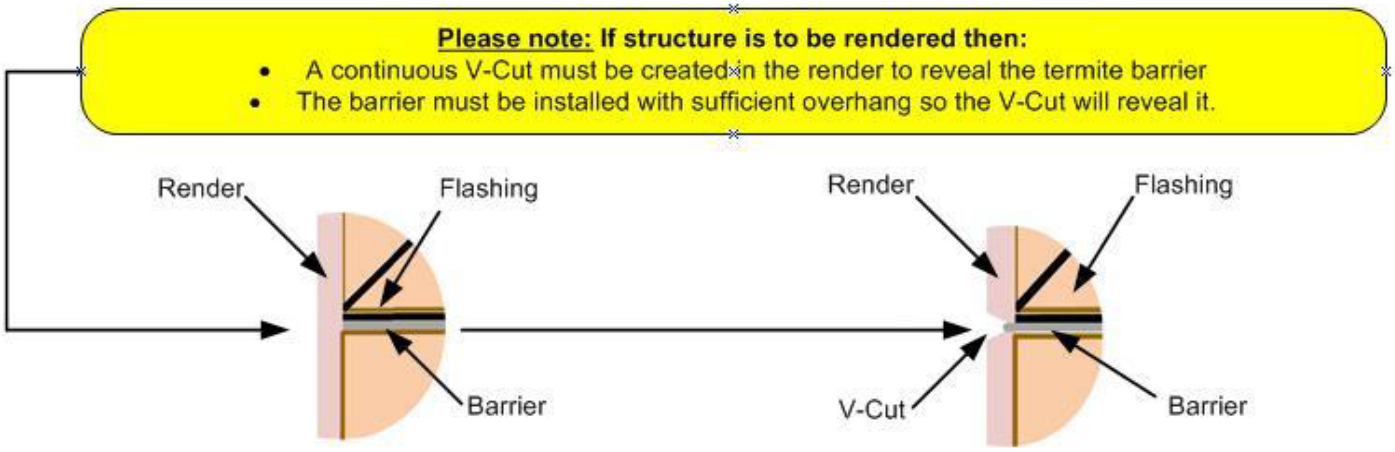
The general procedure for finishing off corners in a top load application is to allow sufficient overhang to finish flush with outer edge of brick course. Use **TERM-seal ™ Ura-Fen Adhesive** and builder's tape to secure corners together.

Note:

1. It is important the **TERM-seal ™ Ura-Fen Shield TWB** is flush with the outside edge of brickwork or block work to provide a visible inspection band and continuous damp course (if being installed as a termite/damp course barrier.

2. In the event that the building is to be rendered, consult with the builder to ascertain the type and thickness of render to be used. Extend the **TERM-seal ™ Ura-Fen Shield TWB** outside of the brickwork by the same width as the thickness of the render in order to ensure that a visible inspection band is available after rendering.

3. **Alternatively,** ensure the builder installs a V cut into the render to expose the inspection band. A clearance height of 25mm must be maintained between the system V cut or inspection zone and concrete paths etc.



Step Down Procedure

This procedure is to be used for:

- Both Top-Loaded and Side-Loaded installations of TERM-seal ™ Ura-Fen Shield TWB.
- TERM-seal ™ Ura-Fen Major Installations
- When a single course leads into a cavity (as depicted)

The following illustrations show a step down from a single brick course with engaged piers (Garage with no lining), leading into a brick cavity with a step down. This scenario presents some unique problems, and this is an example of how they can be resolved using TERMSEAL's products.

Note: Ensure area is clean and TERM-seal ™ Prime-Coat has been applied prior to the following procedures

Step 1

Extend the length of TERM-seal ™ PRM Active Cord Strip along the brick course and fold so that it runs down the step down and onto the next course level allowing for a 150mm overlap to tie into TERM-seal ™ Ura-Fen Shield TWB.

Step 2

Use some leftover off cuts from a TERM-seal ™ **Ura-Fen Major** installation and cut into shape to fit into the cavity.

Step 3

Once your pieces are cut to fit snugly into the cavity paint inside the cavity with TERM-seal ™ **Sealant Active** which once cured, bond the off cuts to the step down.

Step 4

Insert the pre-cut pieces of TERM-seal ™ **Ura-Fen Major** along the top and side of the step down to completely fill the cavity.

Step 5

Once in place apply TERM-seal ™ **Multi-Purpose Active** to the surface area to complete the Termite & Water Proof Membrane.

Step 6

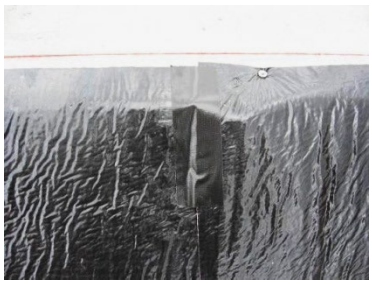
Install TERM-seal ™ **Ura-Fen Shield TWB** in the usual method overlapping over the top of the existing TERM-seal ™ **PRM Active Cord Strip** (150mm) and applying a fold in the same manner as an external corner. Ensure an adequate amount of TERM-seal ™ **Ura-Fen Adhesive** has been applied to bond both processes together.

TERM-seal™ Ura-Fen Shield TWB Joins

When joining **TERM-seal ™ Ura-Fen Shield TWB** in a cavity rollout to a new roll, the overlap must be a minimum of 50mm.

Ensure the underside is nailed and apply a continuous bead of **TERM-seal ™ Ura-Fen Adhesive** and overlap the top strip a minimum of 50mm and nail into slab edge.

Finish off with builders tape (duct tape) across the entire join.



TERM-seal™ Ura-Fen Shield TWB Ends

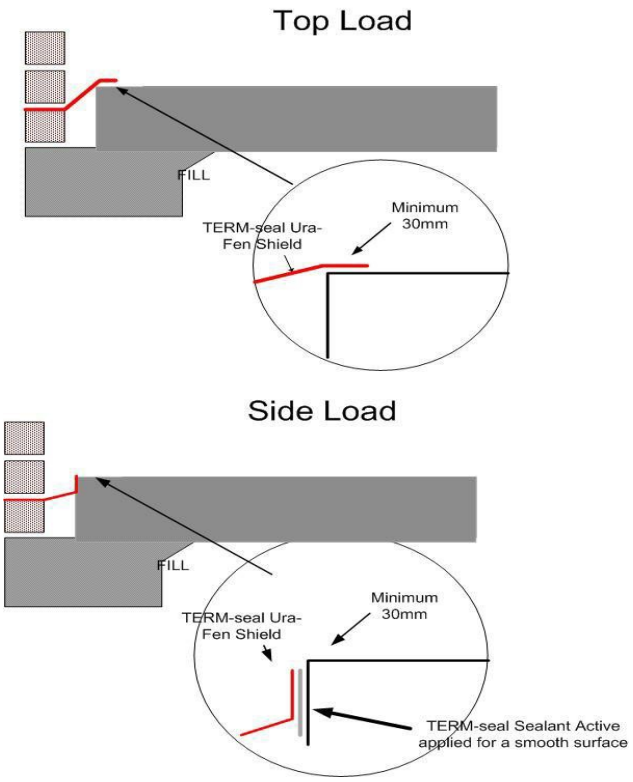
When installing **TERM-seal ™ Ura-Fen Shield TWB** in a cavity and you come to a blank end, e.g. where the cavity abuts a concrete column or patio slab that is the same height as the inside finished floor level it is critical that the **TERM-seal ™ Ura-Fen Shield TWB** is terminate in a manner that will not let termites escape out the end of the cavity. This can be achieved by installing the **TERM-seal ™ Ura-Fen Shield TWB** past the end of the cavity by minimum 50mm, glued and nailed.

TERM-seal™ Ura-Fen Shield TWB installed as a full under slab termite and moisture Vapour barrier.

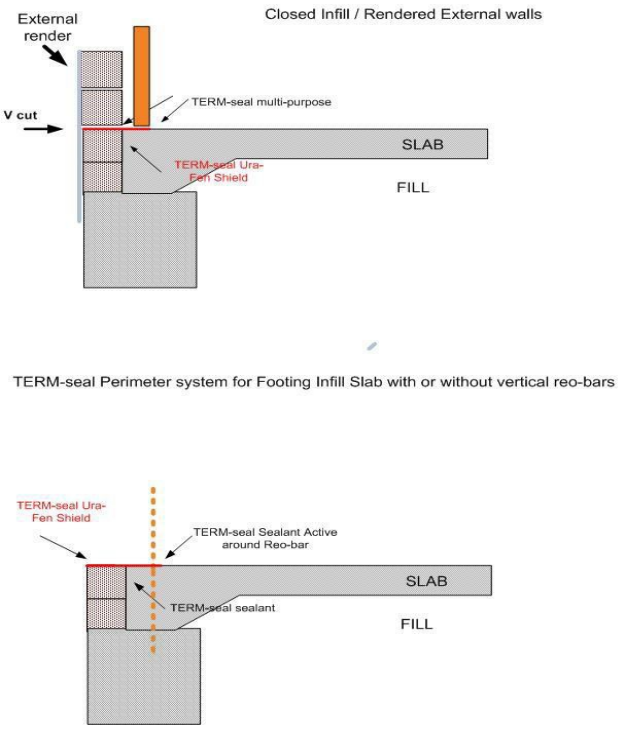
TERM-seal ™ Ura-Fen Shield TWB has been tested by CSIRO and approved by APVMA for use as a full under-slab moisture vapour barrier/damp-proof course when installed in accordance to AS2870-2011.

TERM-seal™ Ura-Fen Shield TWB Perimeter Installation Diagrams

Side load and Top load Monolithic Slab



Side load and top load Infill and footing slab



TERM-seal ™ Ura-Fen Shield TWB 100mm- A joint filler strip

TERM-seal ™ Ura-Fen Shield TWB 100mm is a compressible 10mm thick triple layer termite and moisture proof sheet barrier primarily used for expansion joints, construction joints and isolation joints to new and existing buildings. It consists of an open cell 10mm thick polyurethane matrix sheet, containing the active ingredient (2g/kg) Bifenthrin sandwiched between two untreated polyolefin sheets, each, 150 microns in thickness.

TERM-seal ™ Ura-Fen Shield TWB 100mm is supplied as 10mm thick, 100mm wide and 25 metre length rolls.

TERM-seal ™ Ura-Fen Shield TWB 100mm is inserted in concrete joints to act as a physical/chemical termite barrier and provide movement and isolation of dissimilar masonry products within the build environment.

It is highly recommended that TERM-seal ™ Ura-Fen Shield TWB 100mm be only used where the top of the sheet is visible as the inspection zone.

If the joint or any part of the joint is to be concealed with a wall or other, such as floor tiles, treatment on the surface with TERM-seal ™ Multi-Purpose Active and TERM-seal TM Reo-Band FG is the preferred application.

Expansion Joints

An *expansion joint* in a concrete structure is a disconnection provided between adjacent sections of the concrete slab to allow movement due to dimensional increases and reductions of the adjacent sections and through which some or all the bonded reinforcement is interrupted. In pavements slabs on ground, it is a separation between slabs filled with a compressible filler material.

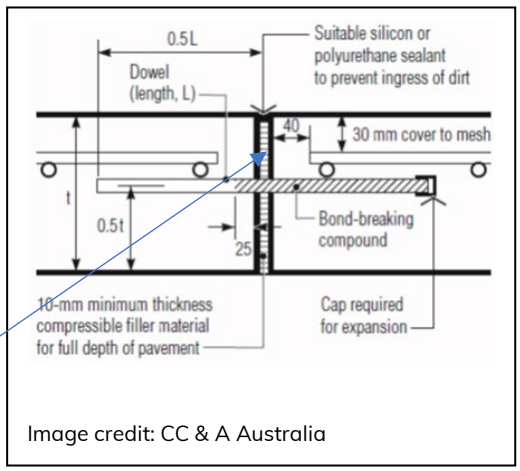


Image credit: CC & A Australia

TERM-seal 100mm will be installed here after the dowels have been fitted to provide a seal between the two concrete bodies.

Construction Joints

A *construction joint* is the interface between concrete placements intentionally created to facilitate construction.
Construction joints are formed using some sort of bulkhead, made of wood, steel, plastic, or precast concrete. These bulkheads/stop boards are often used as screed rails during placement and finishing of the slab.

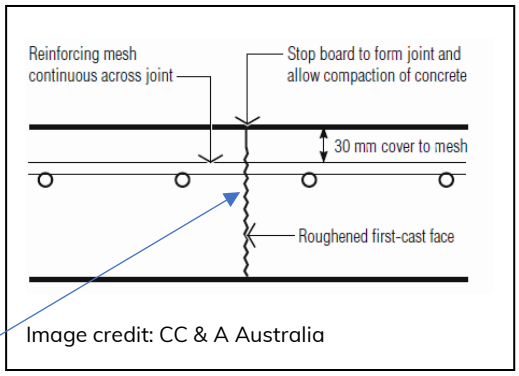


Image credit: CC & A Australia

TERM-seal 100mm can be used in this situation where the cold joint created during construction might allow concealed termite entry.
If a silicone-style sealant is required at the slab top, use TERM-seal Sealant Active at least 20mm deep.

Isolation Joints

An *isolation joint* is a separation between adjacent sections of a concrete structure to allow relative movement in three directions through which all of the bonded reinforcement is interrupted.

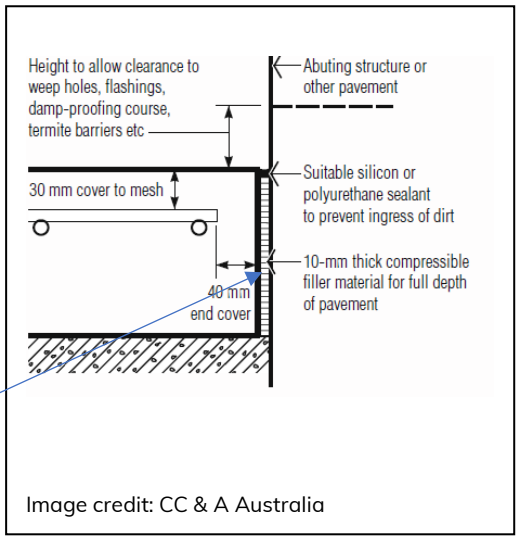


Image credit: CC & A Australia

TERM-seal Ura-Fen Shield 100mm will be installed in place of the silicon/sealant referred to in the image. Refer to specific install details below.

Installation of TERM-seal ™ Ura-Fen Shield TWB 100mm to Construction Joints.

1. Ensure the surface to where the TERM-seal ™ Ura-Fen Shield TWB 100mm is to be installed is clean and free of concrete dags, soil, mud, foreign material and construction debris.
2. Repair and fill any concrete imperfections as per the prescribed method using TERM-seal ™ Sealant Active, TERM-seal ™ Multi-Purpose Active and TERM-seal ™ Reo-Band FG to ensure a flat surface to adhere the TERM-seal ™ Ura-Fen Shield TWB 100mm and let dry before further applications.
3. Determine the location or level of the top of the slab pathway or driveway slab against the building slab. The depth of the TERM-seal ™ Ura-Fen Shield TWB 100mm should equal the thickness of the concrete slab.
4. Apply an 8mm bead of TERM-Seal ™ Ura-Fen Termite Resistant Adhesive along the slab edge at the halfway point of the TERM-seal ™ Ura-Fen Shield TWB 100mm strip.
5. Position the TERM-seal ™ Ura-Fen Shield TWB 100mm strip on the slab edge so the top edge finishes at the top of the pathway, driveway or floor finish, applying pressure to broaden the TERM-Seal ™ Ura-Fen Termite Resistant Adhesive between the slab edge and the TERM-seal ™ Ura-Fen Shield TWB Void Filla.
6. Using Concrete nails, nail along the line of the TERM-Seal ™ Ura-Fen Termite Resistant Adhesive at maximum of 300mm spacings ensuring there are no gaps, kinks, or voids between the TERM-seal ™ Ura-Fen Shield TWB 100mm and the concrete edge. If required, seal any voids with TERM-Seal ™ Ura-Fen Termite Resistant Adhesive or TERM-Seal ™ Sealant Active and re-nail accordingly.

Installation of TERM-seal ™ Ura-Fen Shield TWB 100mm to Concrete Tilt up Panels, Autoclaved Aerated Concrete Panels (AAC), Concrete Filled Panels and Insulated Concrete Wall Systems

1. Ensure the surface to where the TERM-seal ™ Ura-Fen Shield TWB 100mm is to be installed is clean and free of concrete dags, soil, mud, foreign material and construction debris.
2. Repair and fill any wall imperfections as per the prescribed method using TERM-seal ™ Sealant Active, TERM-seal ™ Multi-Purpose Active and TERM-seal ™ Reo-Band FG to ensure a flat surface to adhere the TERM-seal ™ Ura-Fen Shield TWB 100mm and let dry before further applications.
3. Determine the location or level of the top of the internal floor slab and chalk line. The depth of the TERM-seal™ Ura-Fen Shield TWB 100mm should equal the thickness of the concrete slab.
4. Wall systems, such as concrete tilt up panels that have recessed edges and bevelled external corners should be filled with TERM-seal ™ Sealant Active, TERM-seal ™ Multi-Purpose Active and TERM-seal ™ Reo-Band FG to ensure a flat surface to adhere the TERM-seal ™ Ura-Fen Shield TWB 100mm and let dry before further installation.
5. Apply an 8mm bead of TERM-Seal ™ Ura-Fen Termite Resistant Adhesive along the slab edge at the halfway point of the TERM-seal ™ Ura-Fen Shield TWB 100mm strip.
6. Position the TERM-seal ™ Ura-Fen Shield TWB 100mm strip to the panel wall so the top edge finishes at the previously marked chalk line, applying pressure to broaden the TERM-Seal ™ Ura-Fen Termite Resistant Adhesive between the wall panel and the TERM-seal ™ Ura-Fen Shield TWB 100mm.
7. Using Concrete nails, nail along the line of the TERM-Seal ™ Ura-Fen Termite Resistant Adhesive at maximum of 300mm spacings ensuring there are no gaps, kinks, or voids between the TERM-seal ™ Ura-Fen Shield TWB 100mm and the wall panel. If required, seal any voids with TERM-Seal ™ Ura-Fen Termite Resistant Adhesive or TERM-Seal ™ Sealant Active and re-nail accordingly.

Detailing Internal and External Corners and Joining of TERM-seal ™ Ura-Fen Shield TWB 100mm

TERM-seal ™ Ura-Fen Shield TWB 100mm cannot be installed as a continuous sheet around internal and external corners It cannot be overlapped when joining two pieces together. All joining have to be butted together using Use TERM-Seal ™ Ura-Fen Termite Resistant Adhesive

External Corner

The TERM-seal ™ Ura-Fen Shield TWB 100mm should be extended past the external corner by 10mm. This allows the adjacent side of TERM-seal ™ Ura-Fen Shield TWB 100mm to butt into the previously installed sheet. Use TERM-Seal ™ Ura-Fen Termite Resistant Adhesive to seal the joint.

Internal Corner

The TERM-seal ™ Ura-Fen Shield TWB 100mm, at the internal corner should abutted the building substrate to produce no gaps between the end of the TERM-seal ™ Ura-Fen Shield TWB 100mm and the wall. The adjacent side of the internal corner has the TERM-seal ™ Ura-Fen Shield TWB 100mm abutting the first.

If required, seal any voids and TERM-seal ™ Ura-Fen Shield TWB 100mm intersections with TERM-Seal ™ Ura-Fen Termite Resistant Adhesive or TERM-Seal ™ Sealant Active and nail if required.

Joining TERM-seal ™ Ura-Fen Shield TWB 100mm

Trim and make square if required the end of the original roll ensuring it is straight and at 90° to the face of the sheet. Apply a liberal bead of TERM-Seal ™ Ura-Fen Termite Resistant Adhesive to the end of the sheet. Making sure the start of the new roll is square and straight firmly abutting the new roll to the end of the previous roll and nail in place.

If required, seal any voids and TERM-seal ™ Ura-Fen Shield TWB 100mm intersections with TERM-Seal ™ Ura-Fen Termite Resistant Adhesive or TERM-Seal ™ Sealant Active and nail if required.

Typical Install for South Australia

Where the slab has a 30mm rebated edge (as typical of slab designs in South Australia) the installation of TERM-seal ™ **Ura-Fen Shield TWB 110mm** or TERM-seal ™ **PRM Active Cord and Capping Strip 110mm** procedures are as follows.

TERM-seal tm Ura-Fen Shield TWB 110mm

1. Ensure the top of the rebate is clean and free of dirt, cracks, gaps, fissures and free of sharp edges.
2. Affect any repairs to the top of the rebate as necessary using **TERM-seal ™ Prime Coat, TERM-seal ™ Sealant Active** and/or **TERM-seal ™ Multi-Purpose Active** and **TERM-seal ™ Reo-Band FG** if required as per slab repair procedures.
3. Apply an 8-10mm continuous bead of TERM-seal ™ **Ura-Fen Adhesive 50mm in from the slab edge to the top of the rebate**.

   Note: As the top of the rebate is not finished to the quality of the finished floor slab and there is a probability that the surface will not be level, the use of TERM-seal ™ Ura-fen Adhesive is mandatory.

4. When nailing, the TERM-seal ™ **Ura-Fen Shield TWB** must be nailed at intervals no more than 500mm spacing's. Ensure pins/nails are fired through the TERM-seal ™ **Ura-Fen Shield TWB** and TERM-seal ™ **Ura-Fen Adhesive** bead to retain efficacy of system.

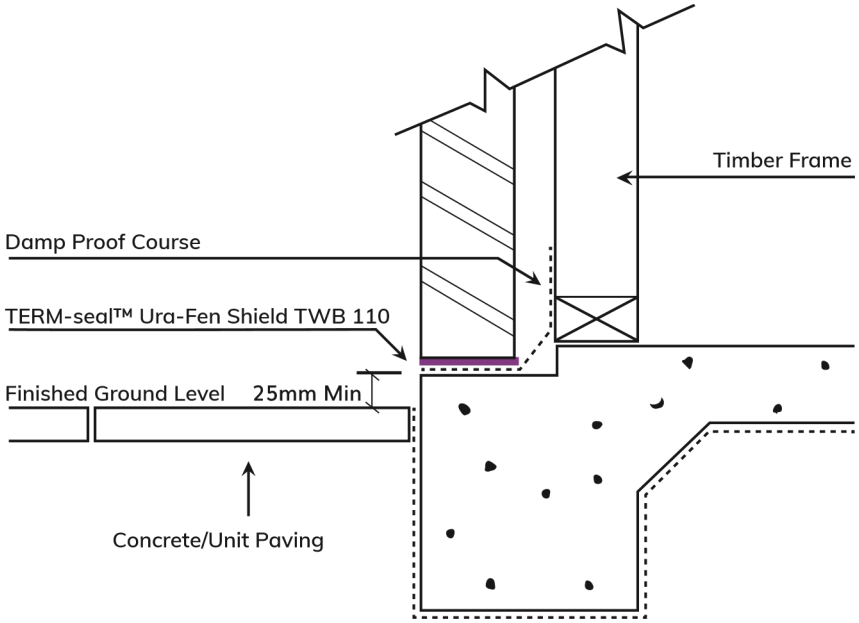
The general procedure for finishing off corners, both internal and external in this type of installation is to allow a minimum of 50mm overlap. Use TERM-seal ™ **Ura-Fen Adhesive** and builder's tape to secure corners together.

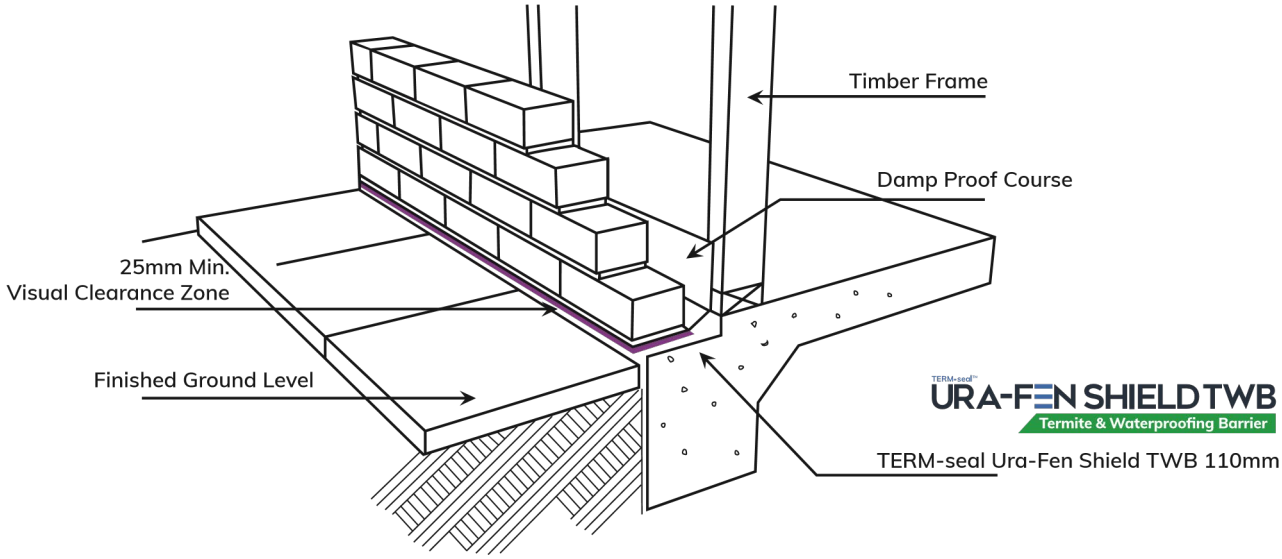
When joining TERM-seal ™ **Ura-Fen Shield TWB** roll to a new roll, the overlap must be a minimum of 50mm. Ensure the underside is nailed and apply a continuous bead of TERM-seal ™ **Ura-Fen Adhesive** and overlap the top strip a minimum of 50mm and nail into slab edge. Finish off with builders' tape (duct tape) across the entire join.

Note:
It is important the **TERM-seal ™ Ura-Fen Shield TWB** is flush with the outside edge of brickwork or block work to provide a visible inspection band.

The minimum Inspection Zone in this type of installation is 25mm where it abuts hard landscaping such as paths, pavers etc. and 40mm in all other situations.

TERM-seal™ Ura-Fen Shield TWB Perimeter Installation 30mm Rebate





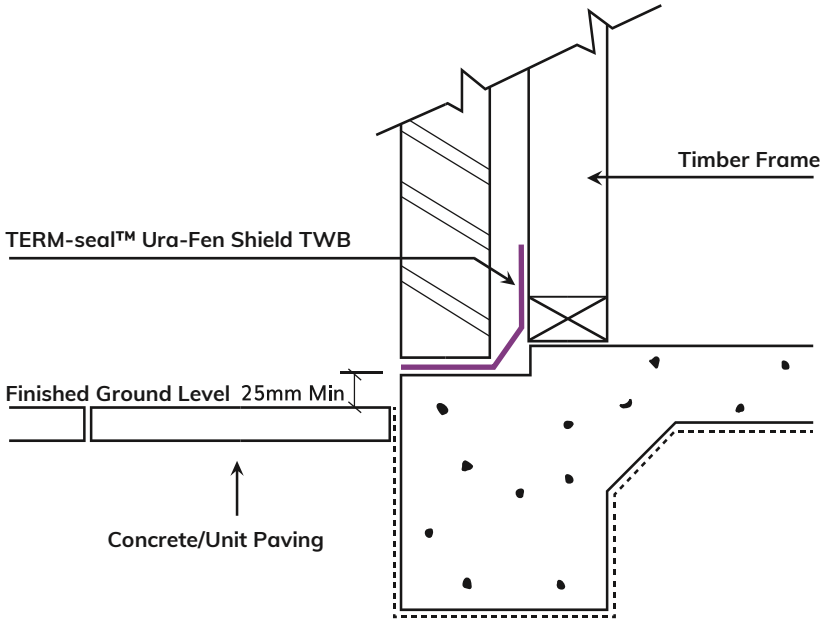
The minimum Inspection Zone in this situation is 25mm when it abuts a hard surface, otherwise it is 40mm minimum

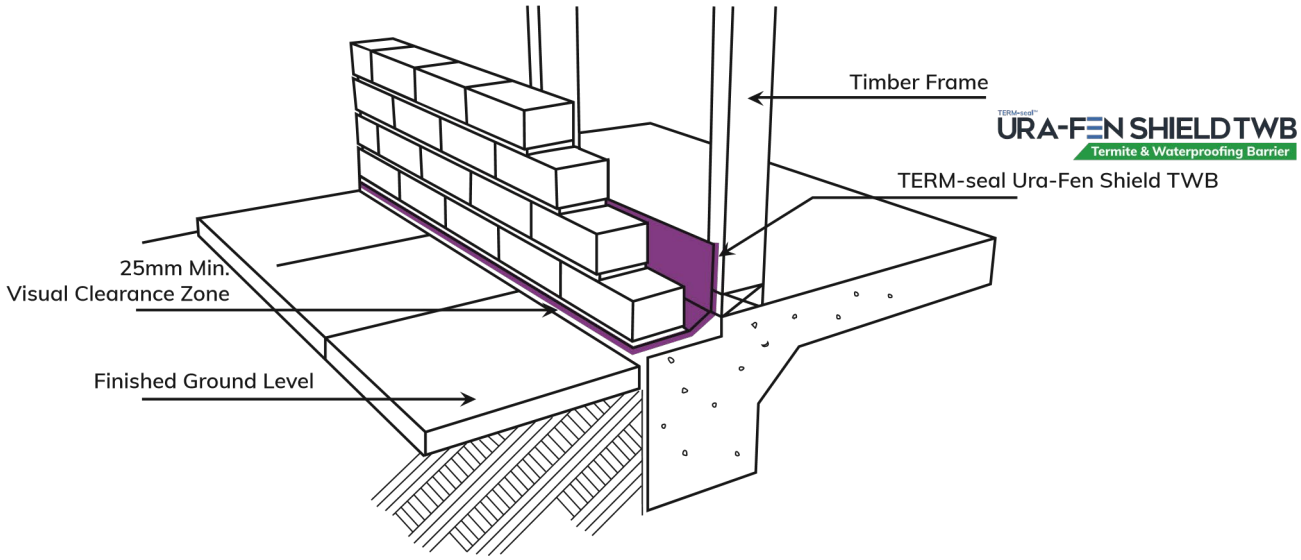
TERM-seal tm Ura-Fen Shield TWB - Used as a Termite and Damp-Proof Course Barrier on 30mm rebated slabs

An alternative to the use of 110mm **TERM-seal ™ Ura-Fen Shield TWB** as a termite barrier only is to install **TERM-seal ™ Ura-Fen Shield TWB** as a combined Termite and Damp-Proof course barrier. This requires the use of **TERM-seal ™ Ura-Fen Shield TWB** 250mm (minimum) wide roll.

The installation procedures are the same as the **TERM-seal ™ Ura-Fen Shield TWB** 110mm with the addition of the inner edge of the **TERM-seal ™ Ura-Fen Shield TWB** must be extended up the frame by a minimum of 40mm and nailed off to the wall framing or bottom plate at 60mm spacings.

TERM-seal™ Ura-Fen Shield TWB Perimeter Installation 30mm Rebate (Termite Barrier & Damp-Proof Course)

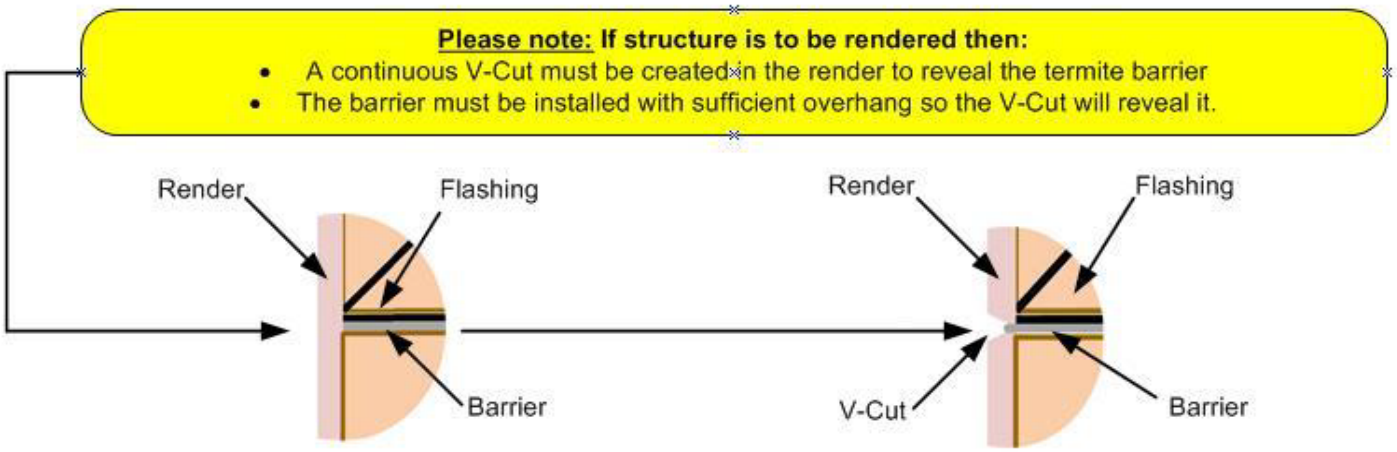




The minimum Inspection Zone in this situation is 25mm when it abuts a hard surface, otherwise it is 40mm minimum

Note:
It is important the **TERM-seal ™ Ura-Fen Shield TWB** is flush with the outside edge of brickwork or block work to provide a visible inspection band and be continuous up the frame by a minimum of 40mm if being installed as a termite/damp course barrier.

In the event that the building is to be rendered, consult with the builder to ascertain the type and thickness of render to be used. Extend the **TERM-seal ™ Ura-Fen Shield TWB** outside of the brickwork by the same width as the thickness of the render to ensure that a visible inspection band is available after rendering. Alternatively, ensure the builder installs a V cut into the render to expose the inspection band. A clearance height of 40mm must be maintained between the system V cut or inspection zone and concrete paths etc.



TERM-seal ™ Penetration Collars

General Installation

Step 1

Place TERM-seal ™ **Penetration Collar** on top of penetration pipe to gauge if collar will hit reo-bar. There must be 50mm clearance between the reo-bar and the collar.

Step 2

Only trim back enough reo-bar to allow the collar to be positioned below reo–bar height. Cutting too much off could affect the structural integrity of the slab. If unsure check with builder or the concreter prior to cutting.

It may also be necessary for you to trim some of the waffle pod to place the collar in position. If unsure, confer with the builder or concreter.

Step 3

Remove dust cap and ensure the pipe is dry and clean of any dirt.

Apply a continuous 8mm bead of TERM-seal ™ **Sealant Active** around the pipe level with height of the reo-bar.

Step 4

Push the collar down the pipe over the bead of TERM-seal ™ **Sealant Active** and position at a height below the reo-bar. This will provide a tight seal of the collar to the pipe and create a waterproof gasket at the base of the collar.

Step 5

Place cap back on pipe and wrap around pipe TERMSEAL Tape. This identifies post pour that the pipe has been treated.

Ensure all penetrations have been identified and their positions on form 013 TERMSEAL Installer Job Sheet.

TERM-seal ™ EZY-Collar

General Installation

Step 1

The EZY-Collar consists of two sections. They fit together by interlocking the mating ends with one another to allow the hinged movement of each section. The other end of each section, by overlapping the two ends forms a clasp, which creates the EZY-Collar.

Step 2

It may be necessary for you to trim some of the waffle pod to place the EZY-collar in position. If unsure confer with the builder or concreter.

Step 3

Ensure the pipe is dry and clean of any dirt

Apply a continuous 8mm bead of TERM-seal ™ **Sealant Active** around the pipe level with height of the reo-bar.

Step 4

Clamp the collar in place just above the Sealant Active bead and push the EZY-Collar down the pipe to position it 50mm below the reo-bar. The use of TERM-seal™ Sealant Active will provide a tight seal of the collar to the pipe and create a waterproof gasket at the base of the collar.

If the fit of the EZY-Collar is tight (it can be variable depending on the brand of pipe used). Then use a pair of tapered pliers to close the fitting of the EZY-Collar.

Step 5

Place a 1cm (10mm) bead of TERM-seal™ Sealant Active on top of the hinge.
Wrap TERMSEAL Tape around pipe. This confirms post-pour that the pipe has been treated.

Ensure all penetrations have been identified with their positions on Form 013 TERMSEAL Installer Job Sheet.

Treating Penetrations when unable to use collars.

Situations where collars will not be able to be used include:

- Cluster penetrations where multiple pipes are too close for collars
- Odd diameter pipes or conduits
- Penetration pipes that are too close to form boards

These penetrations can be protected from termite or moisture ingress by wrapping the penetration pipe with Abelflex (void former) prior to the pour.

Step 1

First, we need to ascertain the finished floor height of the slab. Two methods can be used to determine this. Consultation with the builder or concreter first will determine on which method will be most accurate.

Method A: Run a string line from the top edge of the formwork boards to indicate finished floor height. Mark with permanent marker if you wish.

Method B: Measure from the top of the waffle pod. Typically, this is approx. 85mm however consult with the builder or concreter first and mark the pipe.

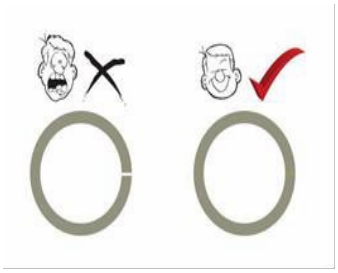
Step 2

Using Abelflex wrap around penetration pipe, measure and cut.

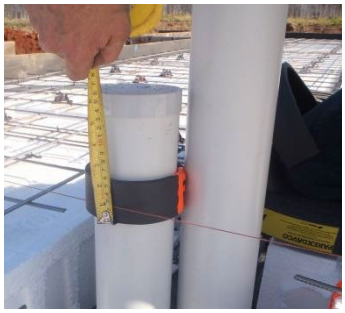
Step 3

Join both ends of Abelflex and starting from the inside, tape continuously around the join so there are no gaps.

This will ensure there is a continuous void created around the penetration.

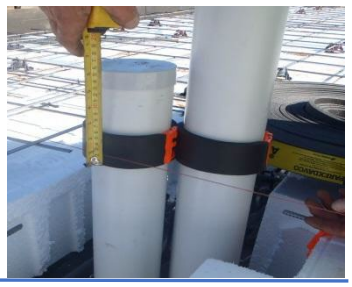


Step 4



Slide Abelflex wrap down the penetration and position the bottom edge of the wrap 20mm below your indicated floor height.

Step 5



Repeat previous procedures for all other pipes where collars are unable to be fitted.

Step 6

Apply TERMSEAL tape to indicate pipes have been prepared. Mark on your paperwork the location of this penetration and indicate treatment is required after pour. This can be completed when you return to do the perimeter.

Note: this procedure can be used to treat the electrical penetrations and any conduits as well.

Step 7

After the slab has been poured and has cured you can finish the treatment.

Step 8

Remove Abelflex from pipe being careful not to puncture the pipes.

The Abelflex must be removed to a minimum depth of 20mm.

Step 9

Thoroughly clean area to ensure the void is clean and free of any concrete particles, dust or dirt.

Step 10

Apply a thin coat of TERM-seal ™ **Prime-Coat** to the void and surrounding area of the pipes and allow to dry.

Step 11

Inject TERM-seal ™ **Sealant Active** into the void surrounding the pipes to finished floor level height.

Step 12

Smooth off the top of the TERM-seal ™ **Sealant Active** bead to ensure there are no gaps.

Completed treatment for service penetration.

Treating Previously Untreated Penetrations

For penetrations that are already cast into the slab and have not been treated, use the following procedure:

Step 1

With a chisel bolster, carefully cut away the area around the penetration to a width of 10mm from the penetration and 20-25mm deep.

Note: *Use extreme care when cutting away concrete next to the penetration that the penetration (PVC pipe) is not damaged during this process.*

Step 2

Follow same procedures as detailed above. Clean out debris, apply Prime Coat and fill void with **TERM-seal ™ Sealant Active** to level with the top of the slab.

TERMSEAL Penetration Treatment Option using TERM-seal ™ Soft Annular Collar

Various regions of Australia require the drainage network of a structure to be water tested by the plumber for council approval. There are also other situations such as plumbing pipes placed adjacent to form work, cluster of pipe penetrations or odd sized conduits.

In these situations, the caps are glued on by the plumber making the installation of rigid collars impossible.

TERMSEAL AUSTRALIA has approved the use of **TERM-seal ™ PRM Active Cord and Capping Strip** to provide slab penetration protection for situations where construction process makes the installation of rigid collars impossible.

For treatment of slab penetrations with **TERM-seal ™ Soft Annular Collars** TERMSEAL AUSTRALIA has developed a range of pre-made collars available for 40mm (water), 40mm (elect), 50mm, 65mm, 80mm and 100mm pipe penetrations.

This procedure is only to be used in these circumstances and does not negate the requirement of TERM-seal ™ Penetration Collars to be used in standard installations.

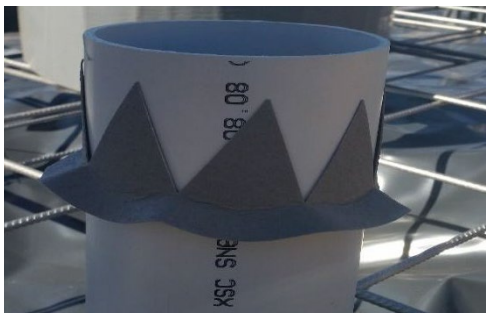
The Australian Standard 3660.1 –2014 states that concrete slab penetrations where sheeting is used on a slab-penetrating pipe or service must:

1. **Consist of an annular flange of sheet material with a minimum annular width of 15 mm.**
2. **Have a minimum height against the pipe or service of 20 mm**
3. **Attachment to the pipe or service shall be such that no gap is in excess of 0.4 mm.**
4. **Where a flange to be cast into a concrete slab is clamped or tied to retain position on the pipe or service, the clamp or tie shall be above the horizontal annulus.**
5. **Where a collar is to be embedded in a concrete slab, it shall be placed so as to sit not less than 40 mm from the upper surface and not closer than 50 mm to any reinforcing mesh or bar chair.**

Following is the sequence for fitment of the Soft Annular collars:

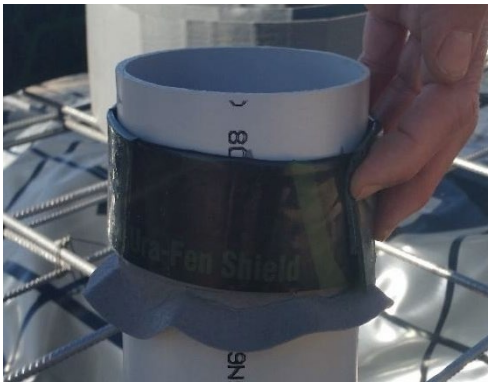
Step 1

Place the pre-made TERM-seal ™ Soft Annular Collar over pipe or service penetrations so that the “fingers” face upwards towards the top of concrete slab



Step 2

Place a strip of TERM-seal ™ Ura-Fen Shield TWB 100mm wide, folded over on its self, to be 50mm wide and overlapped at the ends by minimum 50mm.



Step 3

Place two zip ties around **TERM-seal ™ Ura-Fen Shield TWB** shield strip making sure that the PRM “fingers” (lower zip tie) are also secured by the zip tie. Do not completely fasten zip tie at this stage.

Place the second zip tie approximately 10mm down from the top of the **TERM-seal ™ Ura-Fen Shield TWB** wrap.

Step 4

Slide the completed collar down the pipe or service penetration into required position and pull the zip ties tight.

Knock Out Block and Infill Slab

(Typical Northern Queensland Construction)

The following section outlines the approved procedures for the installation of TERMSEAL Products to domestic (and commercial) buildings that are constructed from infill slabs with knockout masonry block construction.

Although this construction type is typical of far north Queensland it can be found in most cyclone and severe storm prone areas along the East coast of Australia.

Preparation, as with all TERMSEAL systems installations is critical to the successful prevention of termite ingress into this type of construction.

Step 1

Inspect the sab and block work to:

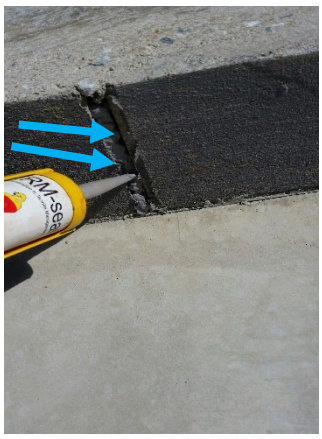
- identify all the critical construction joints
- Identify any areas that require repairs. As this type of slab is poured into the knock out block you may come across sections of over pour or under pour
- Identify any slab penetrations that have been added or require any further treatment.

Step 2

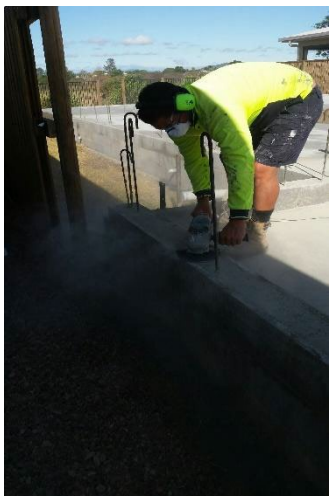
Effect repairs as necessary. These may be, but not limited to:

- adding sand cement mix to arears where the slab has been poured too low into the knock out block. On small repair areas you can mix **TERM-seal ™ Prime-Coat** with fine grade sand to form a dry paste and apply to the area that requires filling.

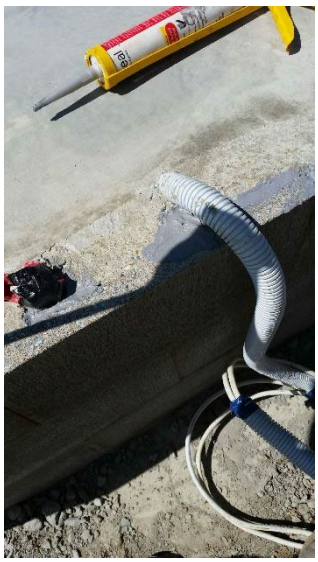
- Repairing mortar joints between masonry blocks as necessary with **TERM-seal ™ Sealant Active**. Using **TERM-seal ™ Reo-Band FG** can aid the placement of **TERM-seal ™ Sealant Active** on vertical joints.



- Grind any “high spots” where the slab and masonry block work connect plus any other areas such as construction joints.
- Remove all the rough, lose or flakey concrete from around the metal tie down rods. Add **TERM-seal ™ Sealant Active** to any voids around the tie down rods and make level with the surrounding concrete surface.
- This will provide a smooth and uniform surface for the installation of TERMSEAL products.



- Address any slab or perimeter penetrations that may have been added after the initial penetration install or that have not been correctly imbedded into the slab. **TERM-seal ™ Sealant Active** is used for small repairs.



Step 3

Clean the surface to be protected thoroughly by brushing or air blowing removing any foreign material such as dirt, mud, sand, concrete particles and debris.

Step 4

Apply TERM-seal ™ **Prime-Coat** to all surfaces to be treated approximately 290 mm wide starting from the outer edge of the masonry block. Application is by brush, roller or spray gun to the point of run off and has a coverage rate of 10 M^2 per litre, and at normal ambient conditions is touch dry in 10-15 minutes.

Step 5

Apply the first coat of TERM-seal ™ **Multi-Purpose Active** approximately 230 mm wide starting at the outer edge of the masonry block and immediately lay TERM-seal ™ **Reo-Band FG** on top before the TERM-seal ™ **Multi-Purpose Active** dries.

Apply a second coat of TERM-seal ™ **Multi-Purpose Active** to seal the entire top of the masonry block and all the critical joints.

Tie down rods are treated in the above manner while installing the perimeter treatment.

Completed Perimeter

STIFFENED RAFT SLAB WITH EDGE BEAMS

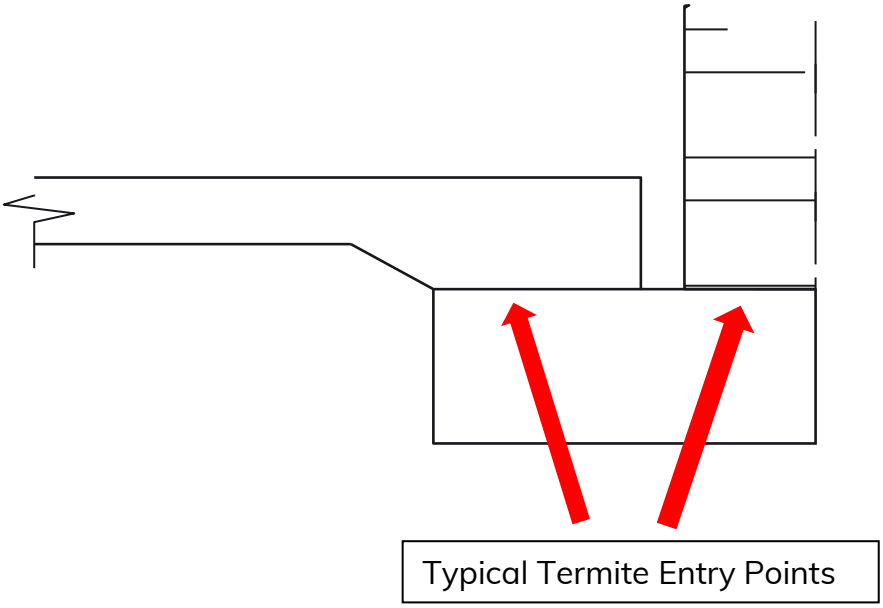
The following section outlines the approved procedures for the installation of TERMSEAL's products to domestic (and commercial) buildings that are constructed from stiffened raft or infilled slabs with edge beams construction.

Although this construction type is typical of areas of Western Australia it can be found in most areas around Australia.

The stiffened raft or infilled slabs with edge beams construction type consists of a concrete strip footing poured first with a monolithic slab constructed on top of one half of the footing slab. The slab and footing may or may not be "tied" together using "z" bars.

Final construction can be of brick veneer, double brick (full masonry}

There are three (3) TERMSEAL options in preventing termite ingress through the construction joint between the footing and the floor slab.



Option 1 - TERM-Seal™ Multi-Purpose Termite and Waterproof System

Preparation, as with all TERMSEAL systems installations is critical to the successful prevention of termite ingress into this type of construction.

TERMSEAL Products Required

TERM-seal ™ **Prime-Coat -** **must** be applied on all applications prior to the first coat of TERM-seal ™ **Multi-Purpose Active** or TERM-seal ™ **Sealant Active.**

TERM-seal ™ **Multi-Purpose Active** can be applied by roller, brush or heavy- duty airless spray gun at a rate of 1.5 litres per square metre. Applications are for use on masonry, concrete and fibre board.

TERM-seal ™ **Reo-Band FG -** Used with the TERM-seal ™ **Sealant Active** and TERM-seal ™ **Multi-Purpose Active** to re-enforce joints and corners.

TERMSEAL Installation Procedures

Step 1
Where gaps or cracks are present in the slab or strip footing beam, spatula TERM-seal ™ **Sealant Active** to fill in the crevasses.

Ensure that a liberal amount of TERM-seal ™ **Sealant Active** is used to fill the gaps and if required use TERM-seal ™ **Reo-Band FG** patches.

Step 2
It is extremely important that the joint area including the concrete slab edge and the surface of the strip footing beam is thoroughly prepared and cleaned. Brush off residual dust and dirt, also use a hammer and bolster to clean off any concrete dags.

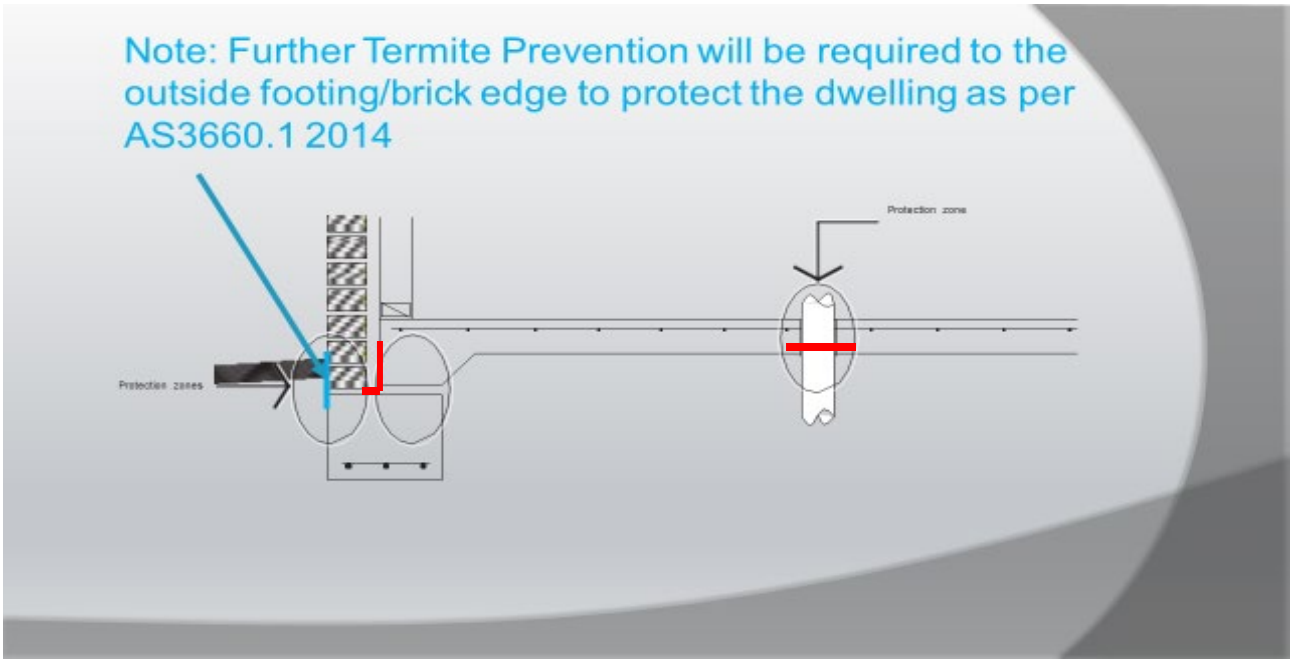
Step 3
Apply a coat of TERM-seal ™ **Prime-Coat** to prepare concrete slab and strip footing beam for TERM-seal ™ **Multi-Purpose Active**. TERM-seal ™ **Prime-Coat** can be brushed, rolled or sprayed.

Step 4
Apply the first coat of TERM-seal ™ **Multi-Purpose Active** to the joint, concrete slab face and surface of the ring beam strip footing.

Step 5
Apply TERM-seal ™ **Reo-Band FG** 100 onto treated join before it cures and apply a second coat along the joint

Step 6
Once the second coat of TERM-seal ™ **Multi-Purpose Active** is touch dry, apply a third and final coat over the entirety of the treated area.

At the completion of the water-proof/termite proofing installation, allow the coatings to cure so the surface is dry and firm.



Option 2 - TERM-Seal™ PRM Cord & Capping Strip and TERM-Seal™ Sealant Active

Step 1
It is extremely important that the surface of the strip footing beam is thoroughly cleaned. Brush off residual dust and dirt, also use a hammer and bolster to clean off any concrete dags.

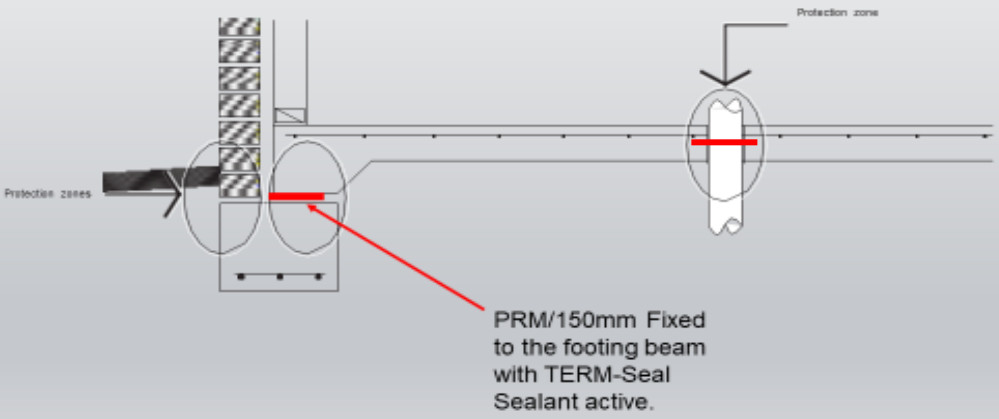
Step 2
Apply a coat of TERM-seal ™ **Prime-Coat** to prepare the surface of the strip footing beam for TERM-seal ™ **Sealant Active**. TERM-seal ™ **Prime-Coat** can be brushed, rolled or sprayed.

Step 3
Ensure that a liberal amount of TERM-seal ™ **Sealant Active** is used along the surface of the concrete strip footing (ring beam footing) from the outer edge of the floor slab in 150mm.

Step 4
Place a continuous length of **TERM-seal ™ PRM Active Cord and Capping Strip** (150mm) directly onto the previously installed **TERM-seal ™ Sealant Active.**
It is important that the outer edge of the **TERM-seal ™ PRM Active Cord and Capping Strip** is installed to the outer edge of the yet to be constructed floor slab.

Install the PRM prior to the **TERM-seal ™ Sealant Active** curing and nail in place at a maximum of 1.0m spacings.

Diagram showing the placement of PRM/150mm on the strip footing beam, before the floor slab has been poured



Option 3 - TERM-Seal™ Ura-Fen TWB Shield

Refer to the section on TERM-seal ™ Ura-Fen Shield TWB, either Top Load or Side Load for instruction on how to install these options.

Diagram showing the placement of Side Loaded TWB/300

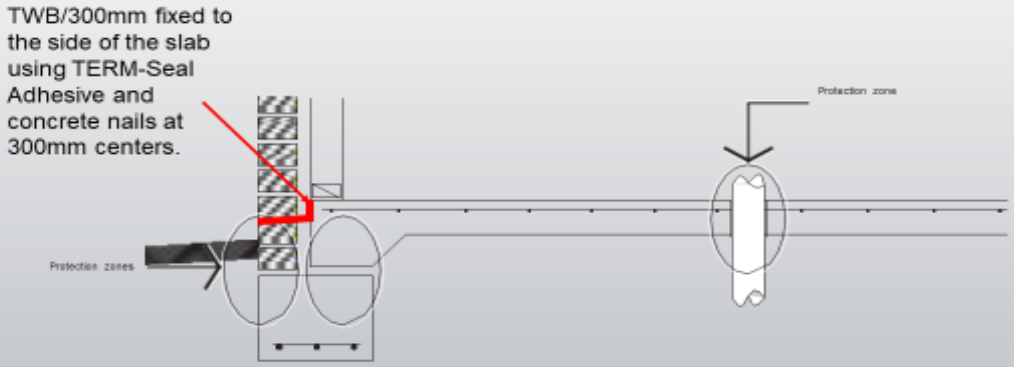
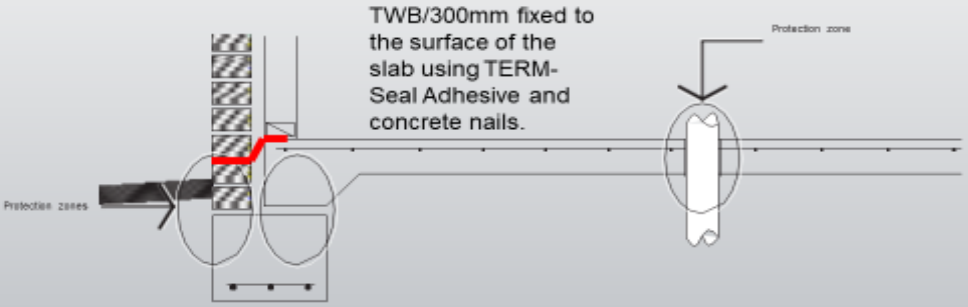


Diagram showing the placement of Top Loaded TWB/300



Autoclaved Aerated Concrete (AAC) Panels and Dincel (type) Structural Wall Systems

Although these two types of wall systems differ greatly in their material make up they are generally protected in the same manner.

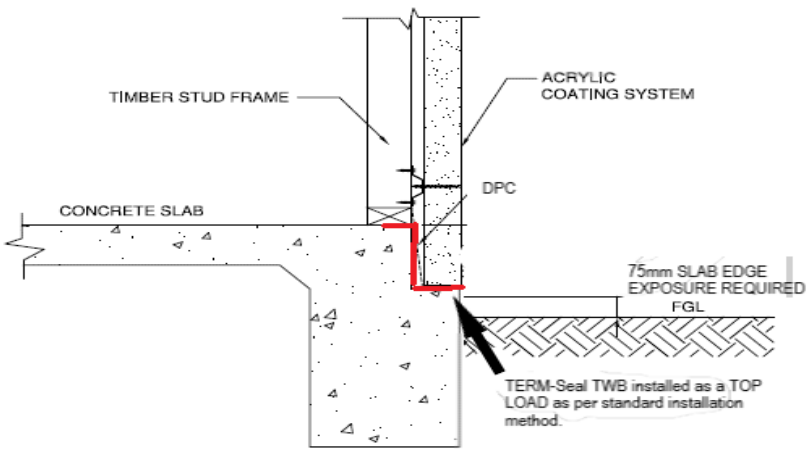
Typically, there are two systems that can be considered when installing a TERMSEAL termite barrier into these types of walls.

The following section outlines the approved procedures for the installation of the TERMSEAL products to AAC and Dincel style wall systems.

TERM-seal ™ Ura-Fen Shield TWB

To consider this installation you must confer with the builder to establish whether the slab edge will be exposed by at least 40mm if bordered by hard landscaping or 75mm if soft landscaping.

Refer to the TERM-seal ™ **Ura-Fen Shield TWB** **General Procedures (top load)** and the following drawing for how to install this procedure.



TERM-seal ™ Multi-Purpose Active + TERM-seal ™ Reo-Band FG

Where the slab edge cannot be exposed or if the wall panel is to be buried below ground level and backfilled against the following installation procedure should be used.

Step 1
It is extremely important that the surfaces of the wall system and slab edge is thoroughly prepared and cleaned. If a Dincel type wall system you will need to "scuff" the area to be treated with a coarse abrasive block. Brush of residual dust and dirt, also use a hammer and bolster to clean off any concrete dags and repair slab edge if required.

Step 2
Apply a coat of TERM-seal ™ **Prime Coat** to prepare the surface for the first coat of TERM-seal™ Multi-Purpose Active.

TERM-seal ™ **Prime-Coat** can be brushed, rolled or sprayed.

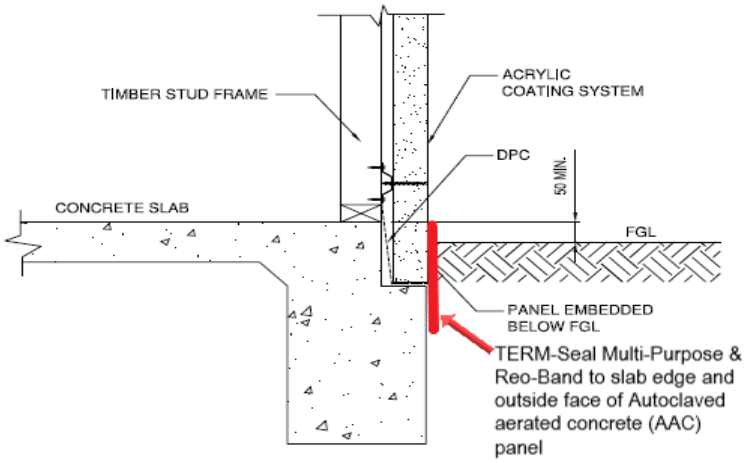
Step 3
AAC panels: Ensure that a liberal amount of TERM-seal ™ **Multi-Purpose Active** is used along the edge of the concrete slab edge and the wall system to 50mm above finished ground level.

Dincel Wall Systems: Apply a continuous and liberal amount of TERM-seal ™ **Multi-Purpose Active** to either side and including of the "critical joints". That is where the wall system sits on the concrete slab and any vertical joints in the walls themselves.

Step 4
Place a continuous length of TERM-seal ™ **Reo-Band FG** 130mm across the critical joint and onto the previously applied TERM-seal ™ **Multi-Purpose Active**. This should be done prior to the TERM-seal ™ **Multi-Purpose Active** drying.

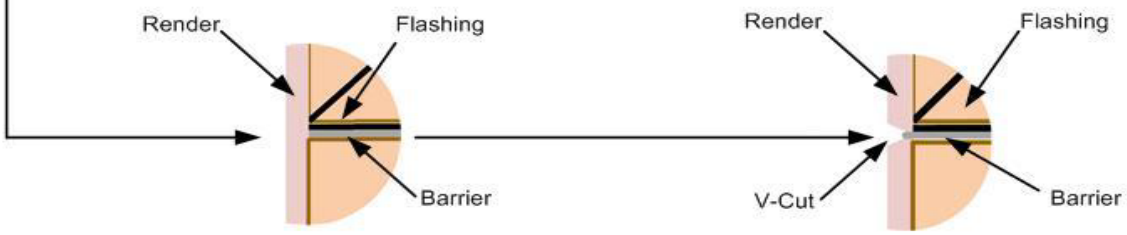
Apply a further coat of TERM-seal ™ **Multi-Purpose Active** to the entire area being protected.

Step 5
When touch dry apply a final coat of TERM-seal ™ **Multi-Purpose Active** to the entire area being treated and protected. When complete the area will be termite and waterproof.



Please note: If structure is to be rendered then:

- A continuous V-Cut must be created in the render to reveal the termite barrier
- The barrier must be installed with sufficient overhang so the V-Cut will reveal it.



ECO Block and other Insulated Concrete Wall System (ICS)

The application must prevent concealed subterranean termite access between the ICS and the internal concrete floor slab plus entry into the wall panel from external soil (placement is indicated by the purple) line in the diagram below.

Internal Protection Method (Pre-Floor Slab)

1. Ensure the surfaces to be treated are clean of residual dust and dirt, also use a hammer and bolster to clean off any concrete dags.

2. Apply (to the point of run off) TERM-seal ™ **Prime Coat** to the top of the footing beam and the ICS wall to finished floor height, allow to dry. The TERM-seal ™ **Prime-Coat can be applied by brush, roller, or spray application**

3. Apply one liberal coat of TERM-seal ™ **Multi- Purpose Active** approximately 75mm wide to both the top of the footing beam and up the ICS wall panel and immediately lay TERM-seal ™ **Reo-Band FG** 100mm on top before the TERM-seal ™ **Multi- Purpose Active has dried.** TERM-seal ™ **Reo-Band FG** 100mm is also required at all internal corners.

4. Apply a second coat of TERM-seal ™ **Multi-Purpose Active** to seal all critical joints. This will ensure no separation of membrane from structural movement.

5. Apply a coat of TERM-seal ™ **Multi-Purpose Active** to entire surface of wall (up to finished floor height) including the bottom joint and internal corners. This will give you one full coat on the wall and footing beam and three coats on all the joints. Allow to dry.

6. Apply two further coats of TERM-seal ™ **Multi-Purpose Active to the entire previously treated areas allowing drying between coats. You should now have achieved 3 coats on the wall face and 5 coats on the critical joints.**

Internal Protection Method (Post-Floor Slab with no ICS wall)

1. Ensure the surfaces to be treated are clean of residual dust and dirt, also use a hammer and bolster to clean off any concrete dags.

2. Apply (to the point of run off) **TERM-seal ™ Prime Coat** to the top of the footing beam and the concrete slab edge to finished floor height, allow to dry. The **TERM-seal ™ Prime-Coat can be applied by brush, roller, or spray application**

3. Apply one liberal coat of **TERM-seal ™ Multi- Purpose Active** approximately 75mm wide to both the top of the footing beam and the concrete floor slab and immediately lay **TERM-seal ™ Reo-Band FG** 100mm on top before the **TERM-seal ™ Multi- Purpose Active has dried.** **TERM-seal ™ Reo-Band FG** 100mm is also required at all internal corners.

4. Apply a second coat of **TERM-seal ™ Multi-Purpose Active** to seal all critical joints. This will ensure no separation of membrane from structural movement.

5. Apply a coat of **TERM-seal ™ Multi-Purpose Active** to entire concrete slab edge up to finished floor height including the bottom joint and internal corners. This will give you one full coat on the concrete slab edge and three coats on all the joints and footing beam. Allow to dry.

6. Apply two further coats of **TERM-seal ™ Multi-Purpose Active to the entire previously treated areas allowing drying between coats. You should now have achieved 3 coats on the concrete slab edge and 5 coats on the critical joints.**

External Protection Method

Generally, this installation detail will be off the top of the footing beam or the side of the footing beam. The method will be dictated by the placement of the ICS wall on the footing beam.

1. Ensure the surfaces to be treated are clean of residual dust and dirt, also use a hammer and bolster to clean off any concrete dags.

2. Apply (to the point of run off) **TERM-seal ™ Prime Coat** to the top of the footing beam and the ICS wall to finished ground level, allow to dry. The **TERM-seal ™ Prime Coat can be applied by brush, roller, or spray application.**

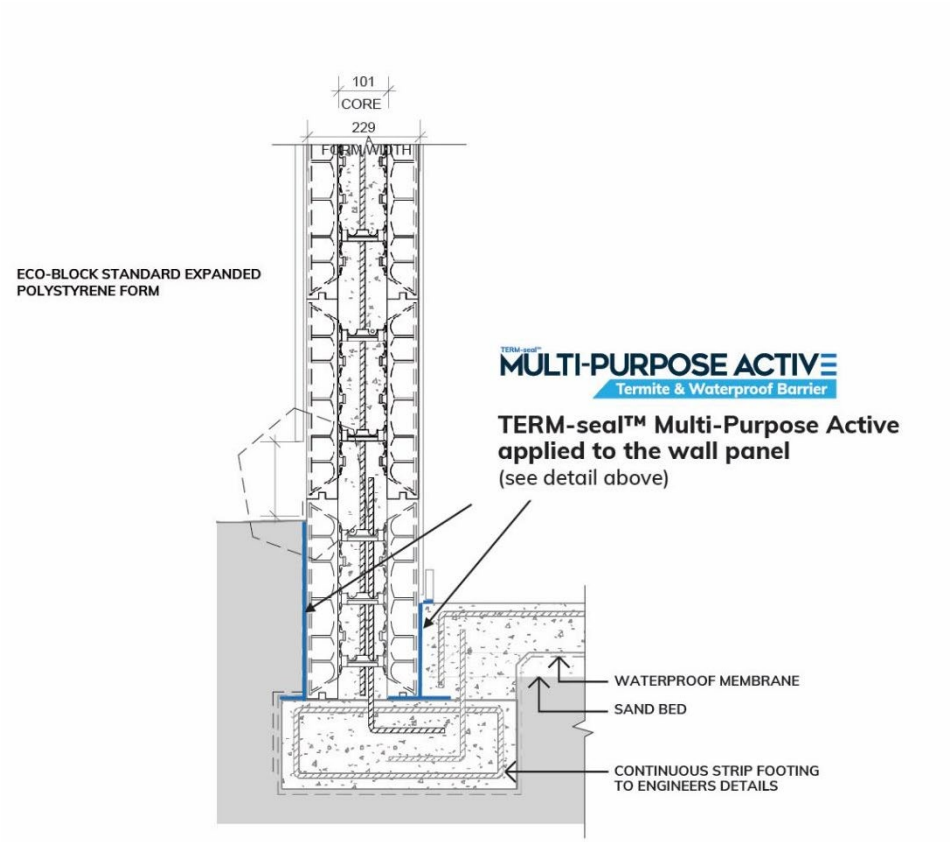
3. Apply one liberal coat of **TERM-seal ™ Multi- Purpose Active** approximately 75mm wide to both the top (or side) of the footing beam and up the ICS wall panel and immediately lay **TERM-seal ™ Reo-Band FG** 100mm on top before the **TERM-seal ™ Multi- Purpose Active has dried.** **TERM-seal ™ Reo-Band FG** 100mm is also required at all internal corners.

4. Apply a second coat of **TERM-seal ™ Multi-Purpose Active** to seal all critical joints. This will ensure no separation of membrane from structural movement.

5. Apply a coat of **TERM-seal ™ Multi-Purpose Active** to entire surface of wall (up to finished ground height) including the bottom joint and internal corners. This will give you one full coat on the ICS wall and footing beam and three coats on all the joints. Allow to dry.

6. Apply two further coats of **TERM-seal ™ Multi-Purpose Active to the entire previously treated areas allowing drying between coats. You should now have achieved 3 coats on the wall face and 5 coats on the critical joints.**

Critical Notes:
Advise the builder that Corflute panels or similar should be placed against the finished wall (24 hours after the treatment is finished or when the **TERM-seal ™ Multi-Purpose Active has dried)** to reduce the chance of damage to the application.



External perimeter installation for ECO-Block

After floor slab pour, a rebate may or may not be present for the wall panels to be installed onto. There will be steel bars protruding from the slab floor for the wall panels to be placed over/around.

Before the placement of the wall panels, make sure the slab surface is clean and dry and apply a liberal coat of **TERM-seal™ Prime Coat** to the outer 'half' of the wall panel, all the way to the edge of the slab. Allow this to dry.

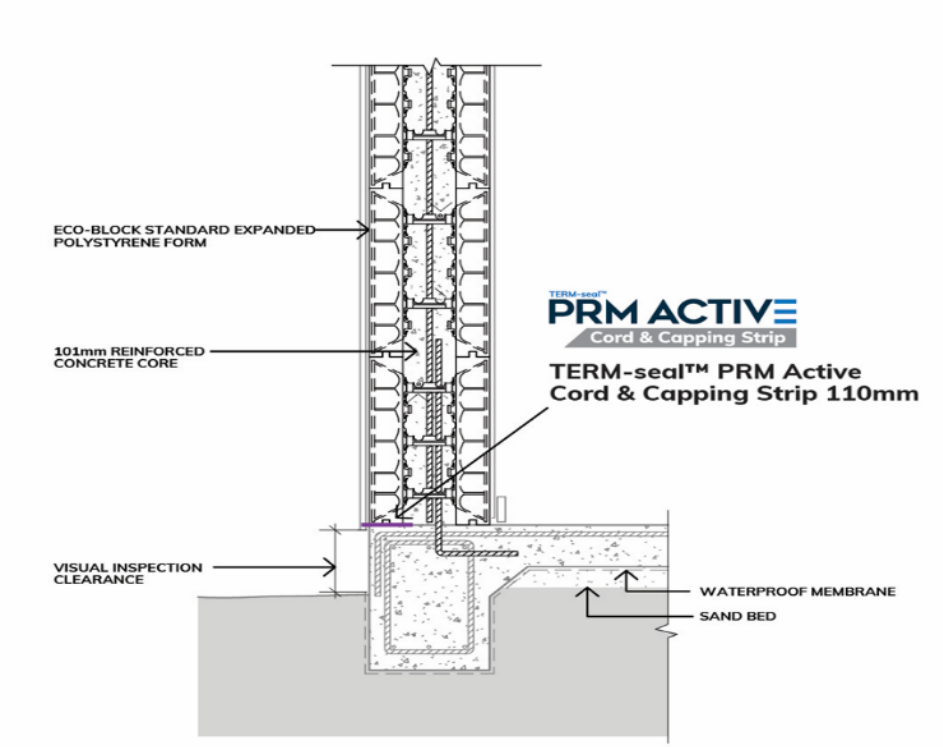
Apply an 8mm bead of **TERM-seal™ Sealant Active** to the middle of the dried **TERM-seal™ Prime Coat** application.

Place 110mm **TERM-seal™ PRM Cord and Capping Strip** from the outer edge of the slab.

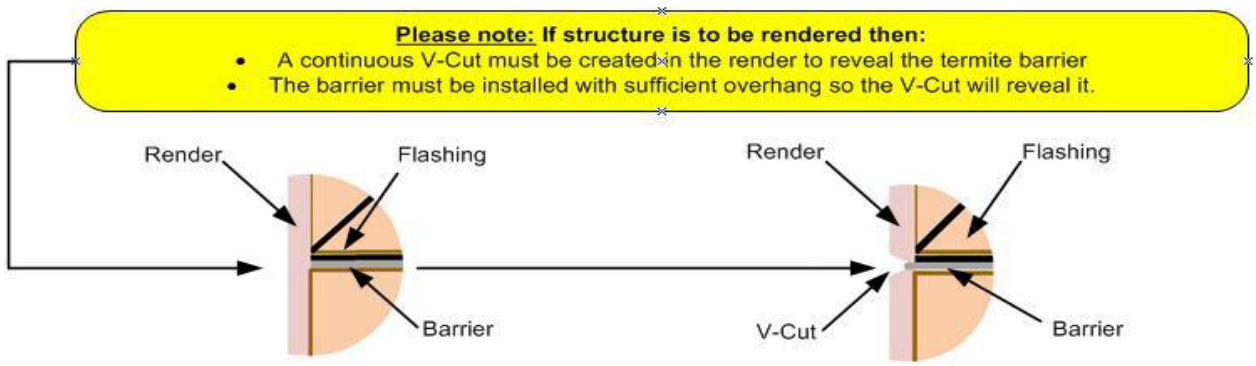
N.B. if the external wall is to be rendered or stucco-style textured coating, then the strip should be extended from the edge of the slab by the thickness of the coating otherwise the strip should be placed at the slab edge, however a strike-line/V-cut must be made to expose the edge of the strip(see note below).This V-cut creates the perimeter inspection zone.

If the strip touches the steel bars protruding from the slab, trim the strip around the bars to give 20mm clearance.

Press the strip down firmly onto the Sealant Active and then use concrete pins(nails) at 500mm spacings to secure the strip, ensuring the pins are placed through the strip and the bead of Sealant Active.



As this type of construction will be rendered or texture coated it is mandatory to advise the builder (in writing) to insert a “V” Joint in the render to expose the TERM-seal ™ Multi-Purpose Active



TERMSEAL Safety Data Sheets

All SDS and TDS sheets are available for download from: www.termseal.com.au or contact TERMSEAL AUSTRALIA PTY LTD, on 1300 657 822.

TERM-seal™ products for waterproofing and damp-proof purposes

TERM-seal™ Multi-Purpose Active Termite and waterproof barrier and TERM-seal Shield TWB have been fully tested and approved for use as waterproofing membranes. Testing was conducted by CSIRO in Australia and achieved a high pass. The compound was tested to A.S/N.Z 4858 and when installed complies with A.S. 3740 as a Class II compound.

By virtue of compliance with Part 5.7.3 of the ABCB Housing Provisions as referenced in H1D3(3) of BCA Vol.2 2022, Active Cord and Capping strip and Shield TWB are suitable sheet materials to act as damp-proof course. The materials should always be installed continuously through the wall or pier and be visible from the outside face of the wall with no penetration of the material.

The use of TERM-seal Multi-Purpose Active for waterproofing installation is not covered by Codemark Certificate CM40017 issued by CMI Certification

Consult your local building authority for license requirements for waterproofing to buildings.