USER GUIDE WRAPTITE® UV-SA

Australia

MEMBRANE SPECIFICATION

Colour: Black (top)

Weight: 392 g/m² (including liner)

Dimensions: Roll size: 1.5m x 50m

1 OVERVIEW

WRAPTITE UV-SA MEMBRANE

- Wraptite UV-SA is a Euroclass B-s2,d0* fire rated membrane that combines the best properties of vapour permeability and air tightness in one innovative, self-adhering product, which is specifically designed for use behind open jointed cladding.
- Wraptite UV-SA combines exceptional water resistance and UV resistance to provide a "shadow" appearance within open rainscreen façades. This functionality is achieved by a coated polyester non-woven textile and proprietary acrylic moisture vapour permeable adhesive with a silicone-coated PET release liner.
- Wraptite UV-SA bonds (no mechanical attachment) to multiple substrates for air tightness and ease of installation, negating the requirement for a primer, sealants or tapes. Adhesive curing time is approximately 6hrs depending on environmental conditions.
- Wraptite UV-SA prevents lateral air movement enhancing the buildings thermal performance. With a rating of Sd 0.06m it provides high vapour permeability in a commercial quality, self-adhered, airtight membrane.
- To help protect the membrane from UV and mechanical damage, the joint openings in the façade covering have to be less than 30% of the area, and a maximum 30mm wide.

2 STORAGE & HANDLING

- Wraptite UV-SA must be protected from rain and physical damage. Pallets of the membrane must be stored in dry areas away from heat, sparks and flame, with allowances for adequate ventilation. Pallets must not be double -stacked. Rolls of Wraptite UV-SA must be stored vertically.
- Store only as much material at point of use as is required for each day's usage in temperatures not exceeding 32°C for extended periods.

3 ACCESSORIES REQUIRED

- ProctorPassive DriFlash Tape
- ProctorPassive YouByute Flexi Tape
- ProctorPassive YouByute Sealing Tape
- Any sealant (liquid applied flashing) must be approved as compatible with Wraptite UV-SA.

* Tested over 12mm calcium silicate board to EN 13238:2010

- Use of an approved liquid applied flashing is ideal for use in complex details and may also be used to protect the leading edge of Wraptite membranes, tapes, and corners, from water ingress if those edges cannot be protected by overlapping in a shingled fashion.

4 TOOLS REQUIRED

- Utility Knife
- Rubber Roller
- Stiff Brush
- Marker Pen
- Measuring Tape
- Scissors
- Barrel Sealant Gun
- Putty Knife
- Squeegees
- Clean Cloth

5 SUBSTRATE PREPARATION

- Substrate condition is critical to the adhesive performance of any self-adhered membrane or liquid-applied flashing.
- Surfaces must be clean, dry and free from all bond-breaking contaminants, sharp protrusions or other matter that may hinder adhesion to the substrate. Clean any loose dust or dirt from the substrate by wiping with a clean dry cloth or brush. Remove and replace any damaged structural wall components.

WRAPTITE UV-SA MEMBRANE & DRIFLASH TAPE

- Can be applied to various substrates including:

- Aluminium (Painted, Powder Coated, Mill Finish)
- Anodised Aluminium
- Concrete Block
- Exterior Grade Gypsum / Fibre Board
- Galvanised Metal
- In-Situ Concrete
- OSB
- Precast Concrete
- Pre-Painted Steel
- Rigid Vinyl
- Steel
- Plywood

6 INSTALLATION: BEST PRACTICE

- Building design requirements should be considered prior to application of Wraptite UV-SA to minimise waste.
- Penetrations/openings will need to be correctly detailed to ensure a weather and airtight installation.

PROCTOR PASSIVE

CodeMark CMNZ70153

Wraptite® UV Airtightness simplified

- Keep Wraptite UV-SA in the original packaging which also functions as a dispenser. Wraptite UV-SA is easily cut to desired lengths and can be installed in either a vertical or horizontal orientation. Use a hand roller or squeegee to ensure an effective bond with the substrate.
- IMPORTANT: Failure to effectively apply pressure to the membrane may result in poor adhesion to the substrate. Poor adhesion may result in air pockets (bubbles) appearing, especially when Wraptite UV-SA is facing direct sunlight. To remedy this, use a hand-held roller or squeegee over the bubbles ensuring where possible, that a proper bond to the substrate is achieved.
- Always install with an overlap, with the upper courses lapped over lower courses. Wraptite UV-SA installed around penetrations such as windows and doors must be installed in the correct sequence to ensure an overlapping "shingled" result.
- All horizontal and vertical overlaps must be a minimum of 75mm. Vertical overlaps should be staggered from floor-to-floor or separated by a horizontally applied Wraptite UV-SA strip. Internal and external vertical corners should have a minimum overlap of 150mm.
- At the end of each working day, protect the leading edge of Wraptite UV-SA with a temporary tarpaulin to ensure liquid water does not seep behind the membrane.
- Wraptite UV-SA should only be applied in dry weather when air and surface temperatures are above -10°C. Do not install Wraptite UV-SA in adverse weather conditions.
- Wraptite UV-SA should be covered with the final external protective layer (i.e.: cladding, roofing) as per table 1. If exceeding this limit is unavoidable, protect Wraptite UV-SA from the elements and UV with a tarpaulin.

Table 1 Maximum UV exposure prior to installation of the cladding

Cladding type	Maximum allowable exposure prior to cladding
Closed joint, face sealed façades	9 months
Open joint rainscreen façades meeting conditions in Table 2	4 months

Table 2 Allowable conditions for open joint rainscreen cladding

Open joint conditions	Acceptable dimensions
Ventilation gap between Wraptite UV-SA and cladding	Min. 20mm
Regularly spaced open joint width	Max. 30mm
Open joint area as a percentage of total (localised) area.	Max. 30%

- All walling and roofing membranes require protection from heavy/ prolonged rainfall and extreme weather events while being installed. Waterproofing materials (e.g. tarpaulins) should be utilised as necessary to ensure the leading edges of all membranes and interior spaces are protected until the primary cladding and roofing is in place.
- Liquid-applied flashing is not for use in place of Wraptite UV-SA Membrane.
- Wraptite UV-SA must not be used in locations below ground or that will be continuously in contact with water.

7 HORIZONTAL INSTALLATION (2-person method)

1. Snap chalkline for guidance.
2. Pre-cut material to required length and roll cut length with release paper outwards.
3. Starting at a corner, peel back release paper by approx. 150mm. (Fig.1)
4. Fold release paper back, and using a squeegee or stiff brush, lightly apply the exposed glue surface to the prepared substrate.
5. Starting in the middle, use a roller or squeegee to smooth out any air bubbles, releasing the air to each side.

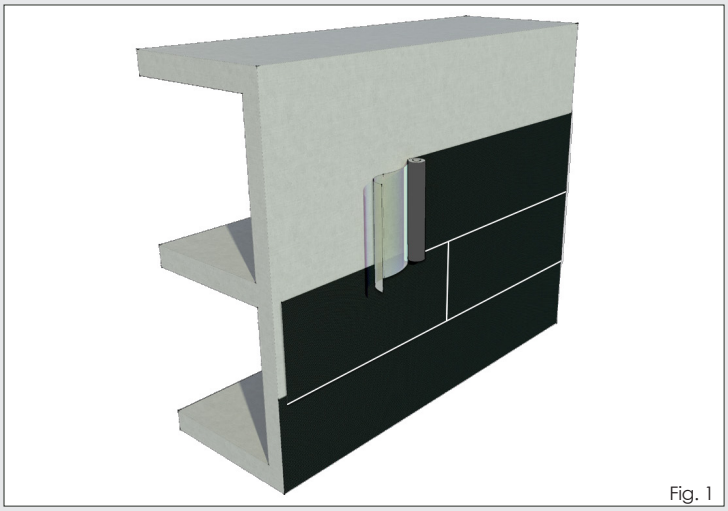


Fig. 1

8 VERTICAL INSTALLATION (1-person method)

FOLLOW PRECEDING STEPS 1-5, THEN:

6. Allow the remainder of rolled up material to drop down - with release paper still attached. Check for proper alignment (Fig.2).
7. When aligned, use a large squeegee or stiff brush across the entire adhered section.
8. Drop roll down, pulling off release paper.
9. Smooth out air bubbles with a hand-held heavy duty roller or large squeegee.
10. Proceed with the next run, ensuring a minimum 75mm overlap and always in a shingled fashion.

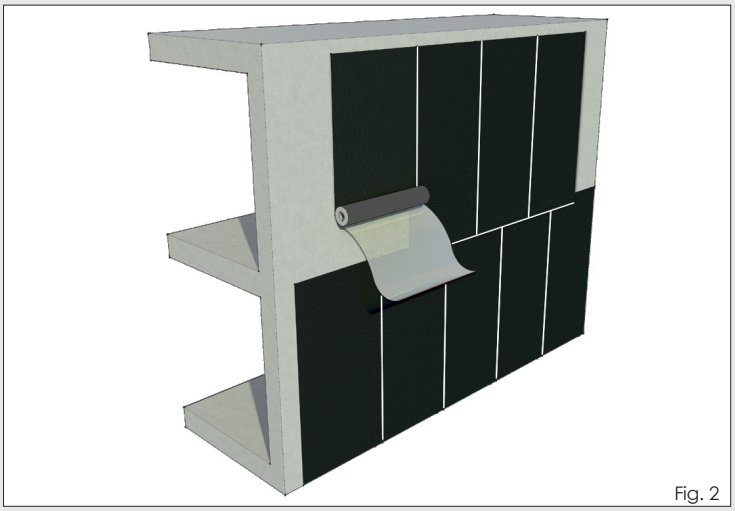


Fig. 2

TECHNICAL ADVICE

Proctor Group Australia can assist with installation details and give specialist advice on the correct use of Wraptite Membrane and Accessories.

PROCTOR

CONTACT US

Telephone: +61 (0) 2 8788 9555

Email: technical@proctorgroup.com.au

Website: proctorgroup.com.au

9 WALL & FLOOR CONNECTIONS

1. Apply 150mm DriFlash Split Liner Tape to the bottom edge of the wall panel. Create a flap by removing one release liner and adhering the top half of the tape firmly with a roller or squeegee. (Fig.3)
2. Use an easy release masking tape to hold down the flap temporarily. Apply Wraptite UV-SA to the rest of the wall panel.
3. On site, remove masking tape taking care not to damage the Wraptite UV-SA. Use a wide enough precut strip of Wraptite UV-SA to seal the floor zone and to make a shingled connection between floor and walls. (Fig.4-5)

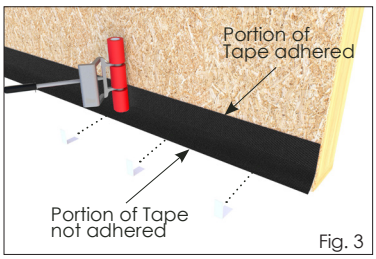


Fig. 3

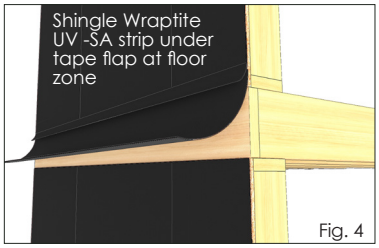


Fig. 4

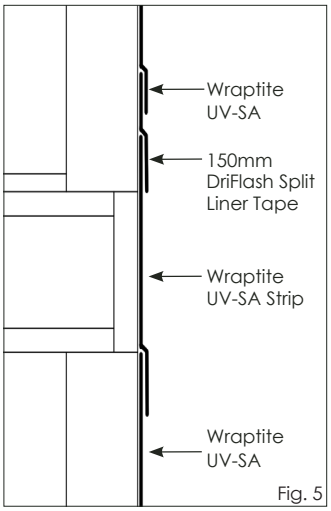


Fig. 5

10 WINDOW & DOOR OPENINGS

1. Pre-fill joints, gaps and cracks > 6mm in the substrate with a bead of liquid-applied flashing and allow to cure fully.
2. Fill remaining joints, gaps and cracks < 6mm in the substrate with liquid-applied flashing and smooth across the rough surface with a putty knife.
3. Finish door and window detailing as per the Wraptite Window Installation Guide using YouByute Flexi Tape and ProctorPassive DriFlash Tape (summarised in Fig. 6 -13).

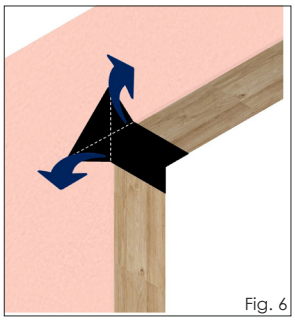


Fig. 6

Fig. 6: Install and prepare the substrate. Cut a 150mm length of the Youbyute Flexi Tape (200mm for 140mm framing) to form a corner piece. Partly peel back the release liner, one-side at a time and adhere within the frame, ensuring it is flush with the interior edge of the stud-work. Apply the remaining YouByute Flexi Tape over the substrate, stretching just enough to cover the substrate in line with the corner and seal completely by applying the squeegee. Repeat for all the corners.

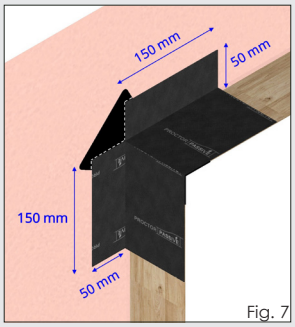


Fig. 7

Fig. 7: Cut a 300mm length of the DriFlash Tape and apply to the upper corners, ensuring the tape runs above the YouByute Flexi Tape. Use DriFlash Tape that is wide enough to allow for 50mm folds to the exterior face. Make a cut at the corner to allow the tape to split and form a corner piece. Using a squeegee, spread outwards to remove any air pockets. Repeat for the other top corner.

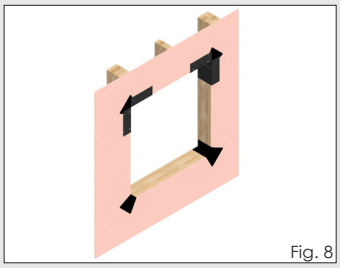


Fig. 8

Fig. 8: The window detail corners should look like this.

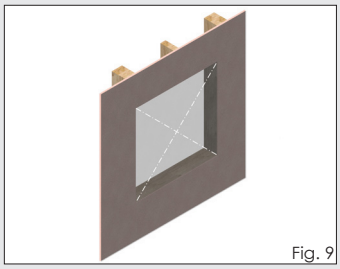


Fig. 9

Fig. 9: Apply Wraptite UV-SA across the substrate. Make diagonal cuts on the Wraptite, corner to corner.

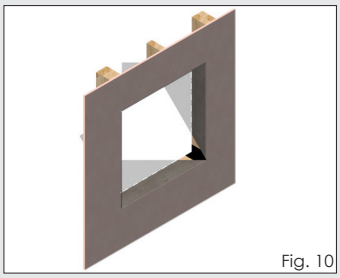


Fig. 10

Fig. 10: Fold all flaps back and adhere into window framing members. Trim excess from all flaps.

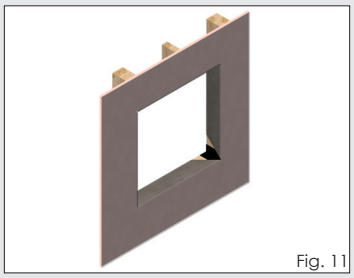


Fig. 11

Fig. 11: The finished Wraptite should look like this.

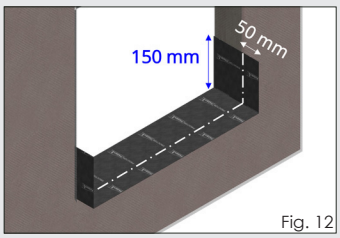


Fig. 12

Fig. 12: Pre-cut sill length + a minimum 300mm of DriFlash Tape for window framing and apply DriFlash tape along the sill, running a minimum 150mm up each jamb covering any expose framing.

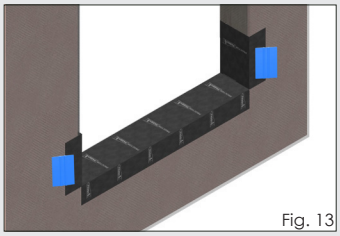


Fig. 13

Fig. 13: Make 90° cut on the overhanging DriFlash Tape, crease firmly, fold down and with the release linear removed, adhere to the Wraptite using a squeege or roller.

11 WALL PENETRATIONS

1. Fill joints, gaps and cracks with liquid-applied flashing and smooth across the rough surface with a putty knife (Fig. 14,16, and 18). Allow to fully cure.
2. Install Wraptite UV-SA up to the penetration edges.
3. Opt 1: Apply a thick bead of liquid-applied flashing around the penetration and smooth with a putty knife ensuring a min. 100 -150mm spread making contact with the penetration, and membrane (Fig. 15 and 17).
4. Opt 2: Only for simple square edge penetrations use 150mm DriFlash Tape to seal penetrations by folding half the tape onto the membrane and the other half onto the penetration. Seal all corner seams with liquid-applied flashing (Fig. 19)

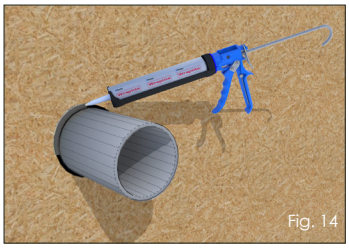


Fig. 14

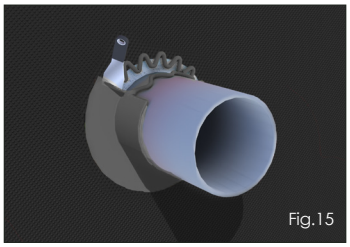


Fig.15

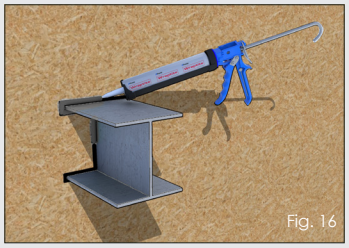


Fig. 16

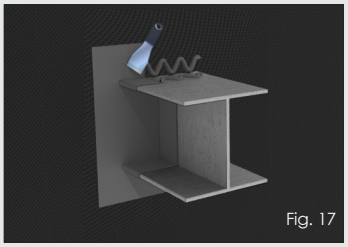


Fig. 17

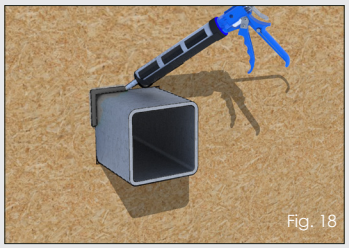


Fig. 18

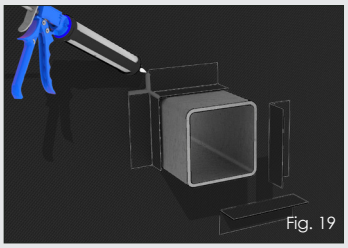
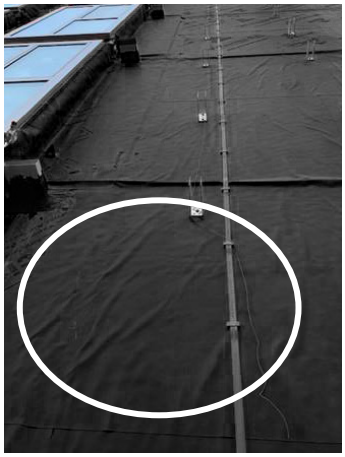


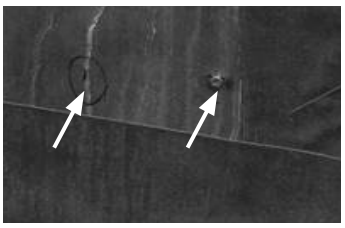
Fig. 19

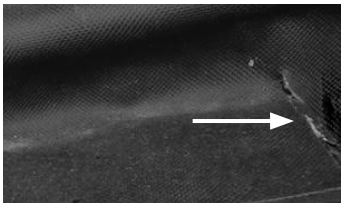
12 TROUBLESHOOTING

Creases & Bubbles
Wraptite UV-SA Membrane should be rolled out and pressed flat to the substrate as much as possible to avoid creating air pockets and bubbles. Some creases are unavoidable. When a significant rise in temperature and/or direct solar radiation are expected within 12 hours of installation, prior to the adhesive fully curing, the risk of bubbling is greater, so extra care must be taken.

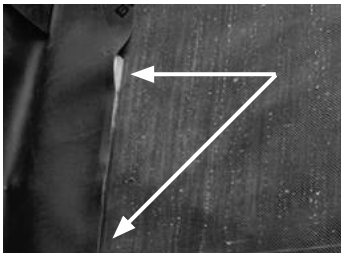


Small Punctures & Tears
Fixings that are flush or penetrate through the Membrane should be treated with minimum 75mm wide ProctorPassive DriFlash Tape. Small tears should be similarly repaired.

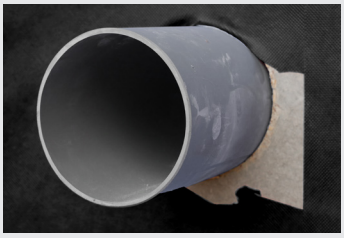




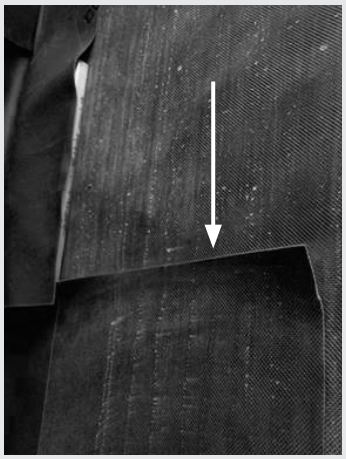
Peel-back and Delamination
Remediate areas of peel-back with ProctorPassive DriFlash Tape ensuring a 75mm overlap. If the membrane has lost its adhesion strength, remove the material completely and replace.



Exposed Substrate
Large tears and awkward wall penetrations can result in the substrate being left exposed. Seal the substrate using ProctorPassive DriFlash Tape with a minimum 75mm overlap and/or liquid applied flashing.



Reverse Shingle
In areas where a reverse shingle effect has occurred, treat either with ProctorPassive DriFlash Tape ensuring the overlap onto the surface is a minimum of 75mm, or apply a generous bead of an approved liquid applied flashing to the leading edges of the membrane and smooth over.



Incomplete Detailing
Areas around window bottoms must be fully lapped under with the membrane. Remove any excess material.