



TECHNICAL BULLETIN – TB226

ARDEX CONSTRUCTION DETAIL BANDAGE

13th August 2024

INTRODUCTION & SCOPE

This bulletin details the procedure for installing “ARDEX Construction Detail Bandage” in conjunction with ARDEX WPM001, ARDEX WPM002, ARDEX WPM155 Rapid Plus, and ARDEX WPM909 membranes over internal and external expansion and construction joints.

This bulletin includes the application of a light-duty trafficable membrane on internal and external tongue & groove fibre-cement sheeting.

DESCRIPTION OF CONSTRUCTION DETAIL BANDAGE

1. Material: Roll dimensions: 140mm overall width X 30 lineal metres.

- (a) substrate: polypropylene non-woven cloth.
- (b) coating: thermoplastic elastomer.



2. Application:

- 1) Internal/external movement and construction joints.
- 2) If used externally, the bandage must be totally covered by a membrane or a tiling system. There must be no direct exposure to UV light.

SURFACE PREPARATION

All surfaces should be dry, clean, and free of dust, grease, and loose contaminating materials. Existing coatings should be totally removed by mechanical surface preparation.



Joints between sheets, perimeter joints, construction joints, and any movement joints, including mobile cracking, should be sealed with a suitable and compatible sealant, e.g., ARDEX "ST" neutral-cure silicone, and allowed to cure.

SYSTEM INSTALLATION/PROCEDURE

EXTERNAL MEMBRANE

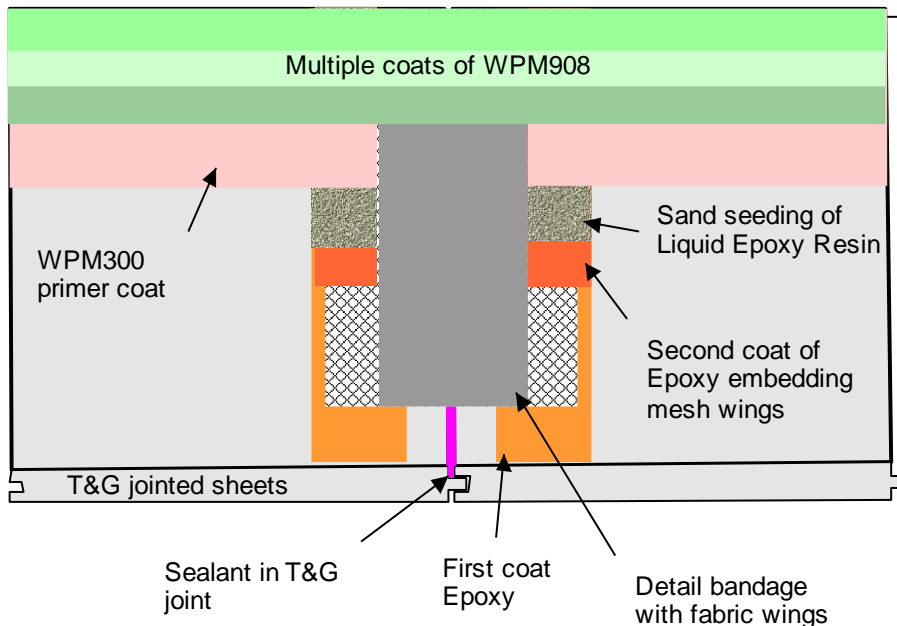
1. All areas to receive the "rubber bandage" must remain dry.
2. Install temporary masking tape over the expansion joints to define an area of free movement for the bandage that is approximately 50mm wide.
3. Mix ARDEX EG15 or ARDEX EG800F (parts A and B) in the ratio of 2:1.
4. Add sufficient Portland Cement to the blended ARDEX EG15 or ARDEX EG800F to form an "icing sugar" consistency. The amount mixed must be applied within 15-20 minutes.
5. Lay a bed of ARDEX EG15 or ARDEX EG800F resin-cement blend onto the concrete surface to the sides of the temporary masking tape (approx. 50mm on either side).
6. Remove the masking tape.
7. Immediately position the ARDEX Construction Detail Bandage. The wide polypropylene wings are embedded into the resin-cement. This means the tape is placed with the widest rubber strip facing up. Take special care that no resin-cement blend is under the band's 50mm free area.
8. After embedding the wings into the ARDEX EG15 or ARDEX EG800F remove excess from the band's surface. Tool off to give a smooth finish.

The coverage is approximately 200ml of mixed material per meter (assuming 2mm thick of resin/cement mix 50mm wide on each side of the central stripe).

9. Sprinkle/cover the wet ARDEX EG15 or ARDEX EG800F with 0.50mm dry clean sand and allow to cure for 48 hours. (protect from anticipated damp/wet conditions whilst curing)
10. If overlaps are necessary, then follow Steps 5,6,7,8 above, including:
Coat between the rubber band overlap (minimum 50mm) with ARDEX EG15 or ARDEX EG800F and work the overlap joint so the adhesive will bleed out at the exposed edge.
Cover/sprinkle the wet joint with sand, as above.

Exposed concrete areas are to be primed using WPM300 primer and allowed to cure overnight. (minimum 12 hours).

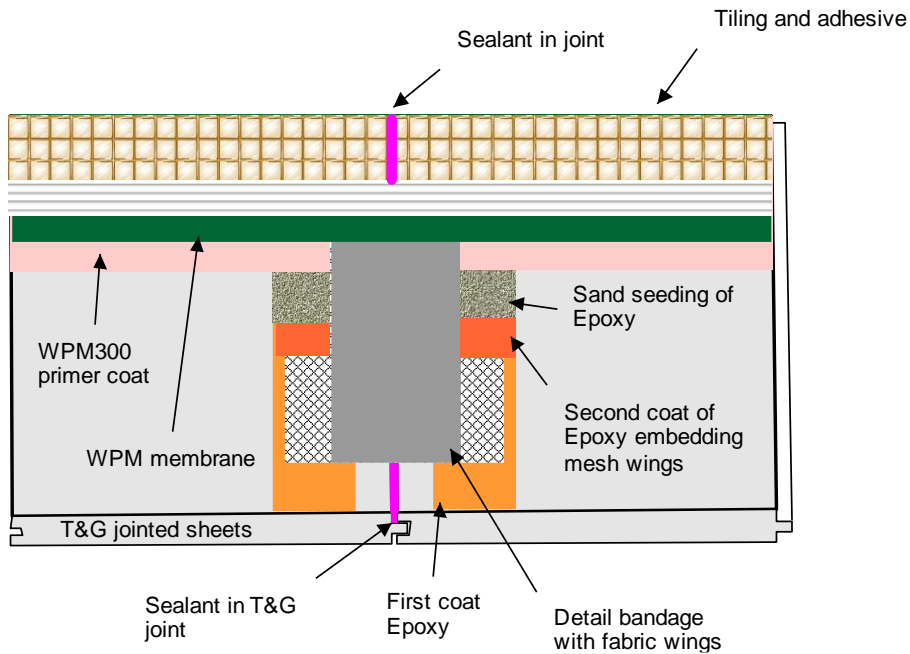
Apply the WPM909 membrane as per the datasheet to an acceptable aesthetic finish (the schematic below shows the application for T&G thick fibre-cement floor sheets, i.e., James Hardie Scyon[®] Secura[®], Cemintel Constructafloor[®], BGC Durafloor[®], Inex magnesia board.



Schematic for application of WPM908 onto T&G sheeting

TILING

If to be tiled over, apply ARDEX WPM001, ARDEX WPM002 or ARDEX WPM155 Rapid Plus membranes as per data sheets and use compatible ceramic tile adhesive. The next schematic gives the general system to be followed for Tongue & Groove type floor sheeting.



Schematic for application of ARDEX WPM155R or ARDEX WPM002 with tiles onto T&G sheeting



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Do not tile across any movement/expansion joints. These joints must be expressed directly above into the tiling system forming a flexible joint filled with a suitable flexible sealant.