

# WILOTEKT-PLUS

## *Installation Instructions*



### PREPARATION

- Ensure deck is smooth (free of all but minor surface defects), dry, and free of dust, laitance and nibs. If deemed necessary by Axter technical personnel, the deck should be cleaned by power wash and allowed to dry thoroughly.
- Check that rainwater outlets are sumped into the slab by at least 30mm, if this is not possible the outlets must be set flush with the top surface of the deck ensuring no water check is present.
- Prime deck and all upstands with WILOTEKT-PLUS SURFACE CONDITIONING PRIMER by brush or roller and allow to dry - 70 to 100 m<sup>2</sup> per drum.
- Seal any open joints, holes, cracks etc with the self adhesive strip STICKBAND 100 or 150, installing it centrally over the opening.
- Around in-situ rainwater outlets, pipe protrusions, etc torch down a 1m x 1m soaker made from the WILOTEKT-PLUS PROTECTION MEMBRANE.
- Install WILOTEKT-PLUS preformed internal and external corners as appropriate, secured in place with WILOTEKT-PLUS compound.

### WILOTEKT- PLUS APPLICATION SEQUENCE

1. Roll out reinforcement mesh, closely butt or overlap adjacent lengths.
2. Heat WILOTEKT-PLUS COMPOUND in a thermostatically regulated bitumen boiler. Maximum temperature 180°C.
3. Position WILOTEKT-PLUS PROTECTION MEMBRANE, by rolling out and back, allowing for 10cm side and 15cm head laps. Stagger lengths to avoid four thicknesses at head laps and mitre corners where laps cross.
4. Pour heated WILOTEKT-PLUS COMPOUND through the mesh, 3 kg/m<sup>2</sup>, at the same time rolling out the WILOTEKT-PLUS PROTECTION MEMBRANE, making sure there are no unbonded areas and that the mesh is buried in the COMPOUND. Allow WILOTEKT-PLUS COMPOUND to flow naturally; there should be no need to spread COMPOUND with a scraper.
5. Where soakers have been installed, set the WILOTEKT-PLUS COMPOUND back and torch the protection membrane directly to the soaker without the compound. Dress the WILOTEKT-PLUS PROTECTION MEMBRANE into all rainwater outlets.
6. Torch apply the WILOTEKT-PLUS PROTECTION MEMBRANE up all upstands to a minimum height of 150 mm.
7. Check that all joints are secure with a minimum bitumen bead of approx 2mm.

### DETAILS

Apply details, install the WILOTEKT-PLUS DETAILING MEMBRANE (mineral finish) by torching method to the required height and return at least 150 mm down on to the flat.

NB: Where the detail membrane is not exposed; detailing can be carried out with the WILOTEKT-PLUS PROTECTION MEMBRANE (sand finish).

## POST APPLICATION DETAILING

If holes are cut through previously installed WILOTEKT-PLUS waterproofing ensure that the cut edge of the system is sealed so that no compound can ooze out.

## PITCH POCKETS

See separate sheet.

## PROTECTION

WILOTEKT-PLUS waterproofing system must be covered with thermal insulation, breather membrane and/or protection as soon as practicable after installation, taking care not to damage the roof waterproofing. Keep roof outlets clear for inspection.

## THERMAL INSULATION

Install, by loose laying, XPS or EPS HYDROSHIELD thermal insulation boards. It is essential that all joints between the boards are tight and no gaps exist where they meet edge details and other services which perforate the roof deck.

Overlay the XPS with WILOTEKT Breather Membrane and EPS HYDROSHIELD with the HYDROSHIELD breather membrane, overlap adjacent rolls by 300 mm and seal the WILOTEKT-PLUS Breather Membrane edges with HYRA-STICK adhesive and seal the HYDROSHIELD breather membrane with HYDROSHIELD adhesive tape.

## FINISHES

### Ballast

Cover breather membrane with minimum 50 mm of rounded washed river gravel nominal size 20 to 40 mm.

### Paving slabs

Can be installed on bedding material, a non woven synthetic geo-textile or on proprietary supports. Position Axter fixed or adjustable paving slab supports onto the breather membrane. A rotation screw allows the adjustable supports to be adjusted to height. At roof edges remove relevant wings and position support as close to edge as possible. Slab overhang <12 cm for 450 x 50 cm or < 10 cm for 40 x 40 cm slabs. Leave a 6 to 10 mm gap at all abutments.

### Green roofs

Apply reservoir boards or drainage layers directly onto the breather membrane as directed.

### Reinforced concrete

Apply concrete as required over a 1000 gauge polyethylene slip layer.

### Brick or block pavers

Apply over a sharp sand base laid over Axter filter layer.

### Macadam /mastic asphalt

Contact Axter for specialist advice.



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*The manufacturer reserves the right to change materials, design and installation procedure without notice.*