

## PRODUCT BROCHURE



## TILING TO WATERPROOFING ON EXTERIOR TIMBER DECKS

### ACCEPTABLE SOLUTION

The New Zealand Building Standard E2 External Moisture determines that tiles can no longer be adhered direct to waterproofing on exterior timber decks. (Some councils do not allow tiles direct to waterproofing over exterior concrete decks that have enclosed areas directly beneath) The Acceptable Solution in E2/AS1 7.3.1.1 Removable surfaces for tiles is chair supports, commonly called tile pedestals.. This Acceptable Solution has provided problems, not the least being the substantial cost increase over the traditional direct fixing over tiles to waterproofing. An alternative solution complying with E2/AS1 is Schluter Ditra over the insitu waterproofing products.

### ALTERNATIVE SOLUTION

The ABS Schluter Ditra system is an Alternative Solution in lieu of the tile pedestal system, complying with E2/AS1 7.3.1.1 Removable Surfaces and accepted as such by most NZ Councils.

### SCHLUTER DITRA



Schluter Ditra is manufactured using high-density polyethylene (HDPE), which does not rot and is highly resistant to solutions containing salts, acids, and alkalis, as well as many organic solvents, alcohols, and oils. Schluter Ditra is a polyethylene membrane with a grid structure of square cavities, with each square having a dove-tail configuration. On the underside of the grid structure is a laminated fleece. The anchoring fleece of the Schluter Ditra is adhered to the in-situ waterproofed surface with an ABS PSA adhesive. The anchoring fleece, being bonded with the ABS PSA, allows the Schluter Ditra to be lifted at any stage



### PRODUCT SPECIFICATION

Schluter Ditra, supplied in 1mtr x 30mtr rolls, is an easy install tile underlayment that provides easy access to any sub waterproofing membrane issues that may arise. Schluter Ditra provides excellent drainage should water penetrate between the Ditra underlayment and the waterproofing membrane, the inter-connecting air channels of the Schluter Ditra allow water and / or moisture to drain away. At a minimal thickness of only 3mm Schluter Ditra is able to provide a cost saving alternative to the traditional pedestal system. Unlike the tile pedestal system, any sized or thickness of tile may be used with Schluter Ditra which is not restricted, as is a tile on pedestals, by weight-bearing loads.

### SYSTEM PRODUCT INFORMATION

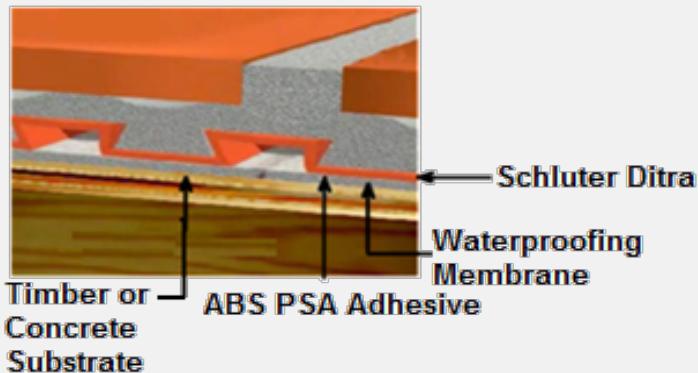
Schluter Ditra	3mm thick	30m long	1m wide	Orange in colour
Ditra Flash	0.06mm Thick	20m Long	80mm wide	Black Butyl
ABS PSA	15kg Pail	30m <sup>2</sup> coverage	White when applied	Fix when clear or Tacky
Tile Adhesive	10kg	Rapid Setting Recommended	Approx Spread Rate 3-4m <sup>2</sup>	1 Part & 2 Part Brands Available
Expansion Joint	One piece	10mm per Heavy duty deck	Joint Width 6mm Per private deck <40m <sup>2</sup>	Placement 3Lm maximum in grid format
Grouts	Epoxy Grout			
Sealants	Wall Floor	Flexible Sealant	Apply as per AS3958.1 specification	

### SUPPORT / LOAD DISTRIBUTION

When placed on a solid foundation, columns or pillars can support tremendous loads. The same physical principle applies to Schluter Ditra installations. Column-like mortar structures are formed in the cutback cavities of the Schluter Ditra. Loads are transferred from the tile covering through the column-like mortar structures to the substrate. Since Schluter Ditra is virtually incompressible within the tile assembly, the advantages of uncoupling are achieved without sacrificing point load distribution capabilities. In the following ABS recommended application for ceramic tile and dimension stone installations to timber decks, Schluter Ditra serves as an uncoupling layer, slip layer and vapour management layer that accommodates moisture from beneath the tile covering.

## APPLICATION PROCEDURE

Schluter DITRA is bonded to the waterproof substrate using Associated Building Systems Pressure Sensitive Adhesive (ABS PSA). The anchoring fleece on the underside of Schluter DITRA is adhered to the waterproofed surface with ABS PSA. The ABS PSA provides for ease of removal of the bond to the waterproof substrate if required. Tiles can then be immediately installed over the Schluter Ditra using the thin bed method in such a way that the mortar becomes mechanically anchored within the square cutback cavities of the Schluter DITRA matting.



## INSTALLATION PROCEDURE

To apply the Schluter Ditra, it is important that an approved applicator with a current ABS applicator certificate is used.

It is best to align and position the Schluter Ditra underlayment whilst slightly stretching, application is made easier with the use of a second person.



Edge to edge butting of the Schluter Ditra is required.

- Leave a 4-5mm gap at wall junctions
- Spread the ABS PSA with an 8 Nap roller over the in-situ waterproof membrane.
- Allow ABS PSA to become tacky and opaque before applying Schluter Ditra.
- Apply the fleece side of the Schluter Ditra to the ABS PSA then bear down on the Schluter Ditra orange top side using a smoothing down tool, always moving in one direction away from yourself, making sure there is a 100% contact of the fleece to the PSA and the Waterproofed substrate

## DITRA FLASH JOINT BAND

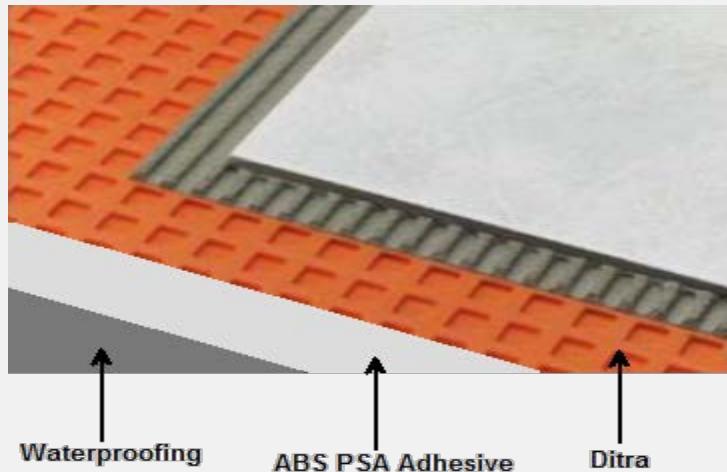


- Apply the 80mm Ditra Flash Bandage ready for tiles.

## WALL FLOOR JUNCTIONS

Apply the Gripset SB adhesive sealant to the Schluter Ditra and substrates, at the 4 -5 mm gaps at the floor-wall junctions.

## FIXING OF THE TILES TO THE SCHLUTER DITRA



- Spreading the tile adhesive 1-2m<sup>2</sup> at a time with the flat blade side of the trowel, force the adhesive into the dovetailed squares of the Schluter Ditra, ensuring that these cavities are completely filled leaving no voids.
- Using the notched side of the trowel, the normal process of tile laying is continued.

## GROUTING OF THE TILES

It is recommended that epoxy grout be used.

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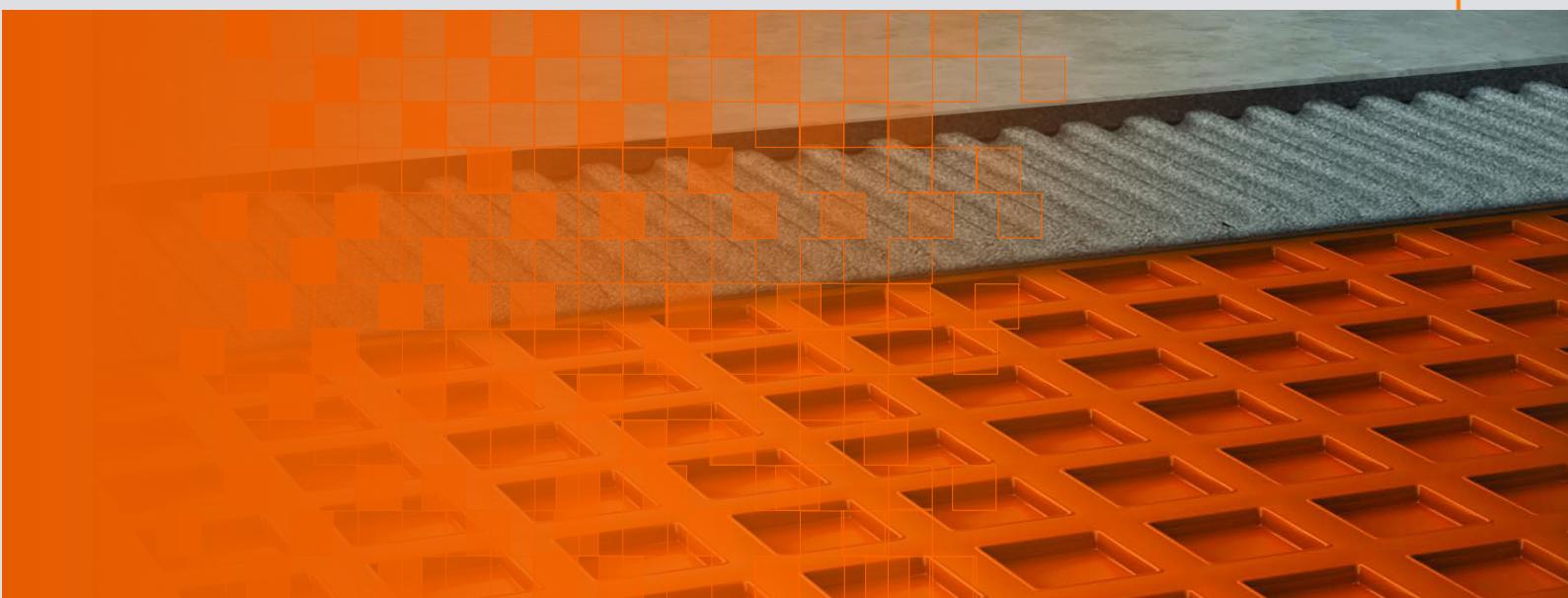
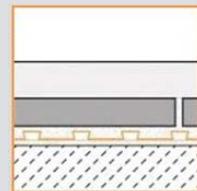
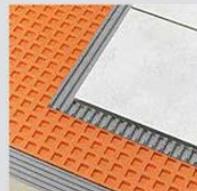
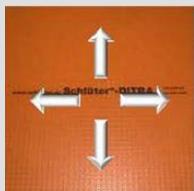
## EXPANSION JOINTS -

In heavy foot traffic area expansion joints are to be minimum of 10mm and placed at a maximum of 3m All other areas such as private decks under 40m<sup>2</sup>\*, expansion joints are to be a minimum of 6mm and place at a maximum of 3m. Use of latham type joints are recommended

\*Contact ABS for decks larger than 40m<sup>2</sup>

## PROJECT SPECIFICATION

Where required ABS can design and individual site waterproofing and / or a Schluter Ditra specification to suit your project. For further information please contact your nearest ABS office.



## FURTHER APPLICATIONS FOR SCHLUTER DITRA

- **Green Concrete**

- No requirement for concrete to be dry. Schluter Ditra can be applied to freshly poured concrete as soon as the concrete can be walked on. Tile and/or stone can then be applied immediately to the Schluter Ditra.
- Note that in this situation the concrete continues to cure allowing for a high MPA.

- **Plywood and Particleboard Floors**

- Schluter Ditra can be used directly over Plywood and Particleboard floors without the requirement of cementitious type underlays. Less carry in weight, no nailing, simply spread adhesive and apply. Ditra also neutralises moisture from the substrate through continuous, open air channels on its underside.

- **Tile Over Tile**

- Schluter Ditra can be used as an interface when tiling over in-situ tiles.
- Interconnected air channels for vapour pressure equalisation

- **Radiant Heated Floors**

- Schluter Ditra can be used directly over in-situ floor levelling and/or waterproofing products.

- **Some Other Areas Of Schluter Ditra Application**

- Pre-Stressed and Post Tensioned Concrete
- Gypsum Based Screeds and I – Joint Systems



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