



waterproofing
system

SYSTEM BENEFITS:

- ✓ Orbry Waterproofing System does not require joint taping*
- ✓ Can be used with underfloor heating systems
- ✓ Can be applied to both timber and concrete floors
- ✓ Also acts as a decoupling membrane (anti-crack underlay)
- ✓ At only 1.8mm thick and 3.8mm after laying it is one of the thinnest decoupling layers available
- ✓ Uses a lot less adhesive than competitor mats
- ✓ Can be used on new screeds after 48 hours

**Scrim tape required at abutments to walls and in-situ wet room shower trays*



ORBRY INFORMATION AND FIXING GUIDE

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USING THE ORBRY™ WATERPROOFING SYSTEM TO WATERPROOF FLOORS

Orbry™ Waterproofing System is a cement and water-based synthetic latex tanking system used with **Permalayer™** anti-fracture membrane. The system may be tiled approximately 2 hours after fixing depending upon temperature. The kit contains sufficient product to fix 4m² of **Permalayer™** (available separately):

- 8kg cement-based adhesive powder
- 2.4 litres Waterproofing Admixture.

When used with **Permalayer™**, the system is suitable for use in areas with limited movement such as single layer timber floors, without the need to use a separate tanking membrane. The system is suitable for use both internally and externally.

SURFACE PREPARATION

All surfaces should be dry, clean and strong enough to support the tiles to be fixed. Tiling substrates should be true and flat to permit fixing without lipping of tile edges.

CONCRETE/CEMENT: SAND SCREED

Using the **Orbry™ Waterproofing System**, tiling can commence on new concrete or cement: sand screeds after a minimum of 48 hours.

HEATED FLOORS (DENSE CONSTRUCTION)

Orbry™ Waterproofing System is suitable for use with underfloor and under-tile heating systems on solid floor structures. After tiles are fixed the heating should not be switched on for at least 14 days and then brought up to operating temperature gradually at a rate of 5°C/24 hours. Under tile heating cables and mats should be laid on top of the **Orbry™ Waterproofing System** and bedded into a screed of Pro 50 Levelling Compound.

EXISTING GLAZED SURFACES

These must be well fixed and able to support the additional weight of tiling, clean, dry and free from grease. The existing glazed surface must be thoroughly degreased and a slurry-bonding coat made of 1 part Prime Bond: 2 parts cement-based adhesive should be brush applied onto the surface and allowed to dry. This will provide a key onto which the **Orbry™ Waterproofing System** can bond.

TONGUE AND GROOVE FLOORBOARDS

The boards must be screw fixed to joists at maximum 300mm centres using countersunk screws. Additional noggins should be inserted where necessary. Board edges should be glued. Prime with a neat coat of Prime Bond and allow to dry before fixing.

FLOORING GRADE/WATER RESISTANT CHIPBOARD

The boards must be screw fixed to joists at 300mm centres using countersunk screws. Additional noggins should be inserted where necessary.

PLYWOOD

Must be WBP or Marine grade, screw fixed at maximum 300mm centres using countersunk screws. The plywood should be minimum 15 -18mm thick to prevent deflection under load and the back, face and edges should be primed with neat Prime Bond.

PLYWOOD OVERLAY TO EXISTING TIMBER FLOORS (WBP/MARINE GRADE)

All sheets should be a minimum of 15mm thick and be screwed down to both joists and existing boards at 300mm centres with staggered joints between the sheets. The plywood should be sealed on the back, face and edges with Prime Bond.

MIXING

Shake the bottle of Waterproofing Admixture well, ensuring that a regular dispersion of colour is achieved. Pour the liquid into the bucket and gradually introduce the Waterproofing Adhesive Powder, stirring to blend the mixed mortar to a smooth lump-free consistency. The properly mixed mortar will be thick enough to hold the adhesive ribs without slumping. It is essential that only enough material is mixed that can be used within the pot life of the material, approximately 30 minutes at 20°C. It should be noted that both the pot life and setting time would be extended in cold conditions and reduced in hot weather/warm conditions.

APPLICATION

Apply a 2mm bed of the mixed product to the substrate using a suitable notched trowel. Lay the **Permalayer™** onto the adhesive bed and press firmly, ensuring that the **Orbry™ Waterproofing Adhesive** is pushed through the holes in the Permalayer and that no voids remain in the adhesive bed (see Fig.1) (the use of a roller or the flat edge of a trowel is recommended). To ensure that 100% coverage is achieved, it is recommended that a skim coat of the tanking system be applied over the Permalayer. The abutments to walls and in-situ wet room shower trays can be waterproofed using **Orbry™ Waterproof Tape** and **Orbry™ Sealing Compound** (see Fig.2).

STORAGE

Store in dry, interior conditions away from direct sunlight, between 5°C and 25°C. The product has a shelf life of 12 months from date of manufacture.



Fig. 1
Laying the Permalayer™ into the Orbry™ Waterproofing Adhesive bed.

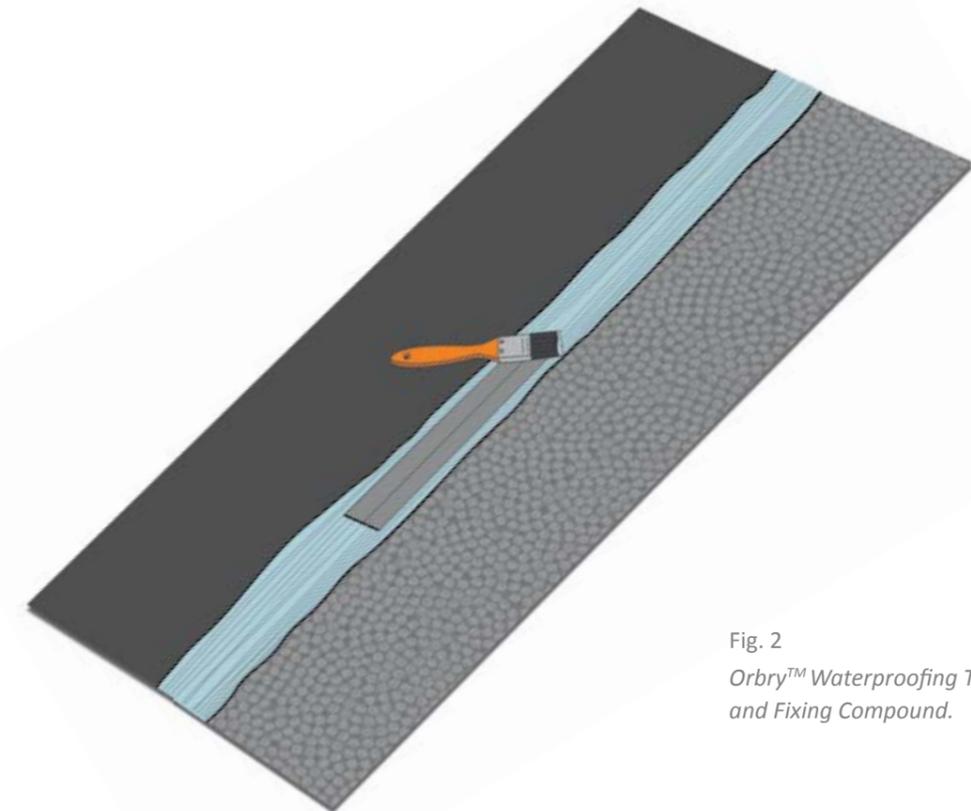


Fig. 2
Orbry™ Waterproofing Tape and Fixing Compound.



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