Principles of Below Ground Waterproofing

Applications for Commercial and Residential buildings









Positive Tanking as the first defence

- Foundations
- Block work Walls
- Tilt Panel Walls
- Internal wet areas



The following technical drawing cover the detailing required



















Web: www.waterproof.org.au

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Revision A

Products for Positive Tanking Waterproofing







High quality polyurethane caulking

Liquid applied Waterproofing Membrane

Reinforcing Joint fabric

Geofabric

Protective board or sheeting

Agriculture drainage









Helping to Waterproof the Structural integrity





Common methods of preventing water penetration are:

- Install a "water stop" between structural joins, typically the centre of the floor/wall joint.
- Include crystalline growth compound in the concrete mix when pouring foundations, walls or core filling block work









Internal Waterproofing





Rooms with an internal water source become wet area such as Plant Rooms, Liquid Storage Rooms or Basement Bathroom / Laundry / Toilet facilities, all of which require waterproofing to avoid damage to the surrounding facilities.

The approach in these areas is 'Positive Tanking'. It is essential to correctly identify the condition of the floors, water exit design and traffic load.

Floor preparation may require grinding, installation of Hobs and Water Stops. Some floors also require a vapour barrier application before applying a waterproofing membrane. Options for decorative wear surfaces typically include tiles or epoxy coatings.











Remedial and Negative Tanking Waterproofing







Most occasions in which Negative Tanking occurs is due to remedial action. Either structural damage has occurred, the membrane system has failed or no waterproofing was installed. In some occasions the water problems are not solved, but the situation managed.

Hydrostatic pressure barrier applied to the inside wall – Epoxy coatings, often with cementous component.

Treat concrete weakness with crystalline growth compound. Car Park ceilings often need Drip Trays as a back up system.

Deep concrete cracking often requires injection fill via packers.











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Positive Side



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