

Assessment of Internal Wet Area Waterproofing System

Name of Project: _____

Main Contractor: _____

Waterproofing Contractor: _____

SCI Accreditation: Yes / No (Delete accordingly)

Name of Waterproofing Material: _____

Instructions: The checklist is to be completed if the works are to be carried out by a non-SCI accredited waterproofing firm.

For BCA's use only

Date of Assessment: _____

Name of Assessor(s): _____

Location of Application: _____

Contractor's Witness: _____
(Name and Signature)

	Checklist	Activities to be carried out on site?* (Yes/No/NA)	Activities carried out during on-site verification?** (Yes/No/NA)	Remarks
1	Surface Preparation			
1.1	Ponding test should be conducted on bare concrete slab for 24 hours.			
1.2	The substrate surface should be smoothly finished. Surface irregularities such as tie holes, blow holes, honeycombs and cracks must be properly filled with appropriate materials before the application of the waterproofing system.			

- Note: (1) This checklist is to be endorsed by the QP (Architect-In-Charge) and returned to BCA together with the shop drawings, method statements and materials specifications within one month after CONQUAS briefing.
(2) During the on-site verification by BCA assessors, any deviation from this checklist will result in **non-award** of points.
(3) If the waterproofing works are carried out by a SCI accredited waterproofing firm, full points will be awarded for this in-process check and on-site verification is not required.

	Checklist	Activities to be carried out on site?* (Yes/No/NA)	Activities carried out during on-site verification?** (Yes/No/NA)	Remarks
1.3	The substrate surface must be free from sharp protrusions like nails and concrete lumps which may tear or punch through the waterproofing membrane.			
1.4	The substrate surface must be cast to fall in the right direction so that water will not stagnate and pond on the slab. The stagnation of water allowable shall not cover a 20-cent coin when placed in the ponded water.			
1.5	For toilets with masonry walls, the mortar joints should be flush pointed and rendered with cement/sand mix to a height of at least 300mm above the floor level to receive the membrane. For the shower area, the walls should be rendered to at least 1800 mm height.			
1.6	Angle fillet should be provided at the floor/wall and floor/protrusion joints. Alternatively, a strip of fibreglass mat, serves as reinforcement, can be applied during application of membrane. Please specify which method to be used.			
1.7	The substrate surface is cleaned and free from all contaminants like mud, dust, loose particles, cement laitance, etc.			

	Checklist	Activities to be carried out on site?* (Yes/No/NA)	Activities carried out during on-site verification?** (Yes/No/NA)	Remarks
1.8	The concrete surface needs to be kept damp but not wet with clean water before application of waterproofing membrane.			
2	Application			
2.1	The components of the waterproofing membrane shall be mixed according to the manufacturer's specifications. Improper mixed materials shall not be used.			
2.2	When mixing the two components, the powder and the liquid, always add the powder into the liquid slowly. Mix with a low speed mechanical stirrer until a uniform and lump-free slurry is formed. Materials that had exceeded the shelf life shall not be used.			
2.3	At least 2 coats of cementitious slurry are required. The required thickness of coating should not be attempted in just one application but in several.			
2.4	During application, the waterproofing membrane shall not be contaminated or disturbed by external agents like rain water, leaking water or debris.			
2.5	When using a roller, each coat of slurry must be applied at right angles to the previous coat.			
2.6	At pipe protrusions in slabs, the membrane is applied upto finished floor level.			

	Checklist	Activities to be carried out on site?* (Yes/No/NA)	Activities carried out during on-site verification?** (Yes/No/NA)	Remarks
2.7	At gully areas, the membrane is turned down 50mm into the gully trap.			
2.8	The waterproofing membrane should turn up every wall at a height of 300mm.			
2.9	The waterproofing membrane should extend on horizontal dry surfaces, e.g. doorway, by 150mm from edge of wet area.			
2.10	At bath and shower area, the waterproofing membrane should be applied to at least 1800 mm height and 1500 mm width of the wall or the entire width of the enclosure.			
2.11	Manufacturer's stated pot life shall be strictly followed. Mixed materials that had exceeded the pot life shall not be used. Care must be taken to prevent rapid drying of the slurry in the container. Dried slurry should not be applied on the slab/walls.			
2.12	The thickness of the membrane shall be verified by a wet-film-thickness gauge. Alternatively, the manufacturer's specifications on determining sufficient thickness, e.g. area coverage method, shall be used. Please specify which method to be used.			
2.13	The lag time between the application of the next coat and the previous coat must follow strictly the manufacturer's instructions so that one coat is cured before the next coat is applied.			

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3	Protection and Completion			
3.1	Proper barricade shall be set up during the curing of waterproofing membrane. Ensure there is proper protection so that the waterproofing membrane is not contaminated or disturbed during curing.			
3.2	24 hours ponding test is conducted after application of waterproofing membrane. If there is any leakage detected, remedial actions shall be taken before the ponding retest.			

Submitted by Main Contractor's Representative: _____
Name & Signature

Date: _____

Noted by Qualified Person (Architect-In-Charge): _____
Name & Signature

Date: _____