



Waterproofing Membrane in Swimming Pools

Initial inspection of Swimming pool walls

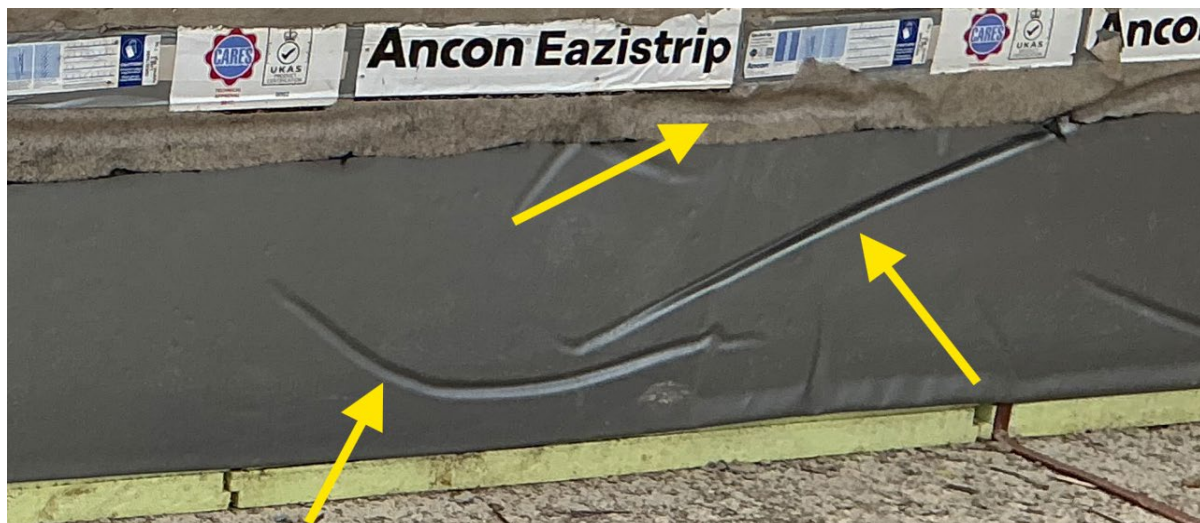
From the initial inspection of the Swimming pool concrete walls after formwork removal, there were several locations where Waterproofing membrane had not been installed to the manufacturers recommendations and had not been retained correctly during the concrete pour. This allowed it to fold into the concrete during placement.



The Juta GP Titan Bond (black fabric coated concrete side surface; silver reverse.)

This indicates where the corner detail had not been formed to the manufacturers detail and had resulted in a pocket of concrete not being placed reducing reinforcement cover to only 5mm (left image)

The image below indicates where the Juta membrane hadn't been retained fully and was displaced by the liquid concrete, resulting in a lack of reinforcement cover at a number of locations along the end of the pool wall.



These required removal of the Juta membrane, shot blasting, surface preparation and epoxy resin repair to the pool end walls. Causing delay to other ongoing works.

Key points for consideration:

- Fully understand the designs, manufacturers installation requirements and limitations of the product.
- Ensure that the concreting works are inspected fully prior to the concrete pours, and that they are sufficiently managed and the concreting team are briefed prior to concrete placement.
- Do not rely fully on 3rd party inspections, if something looks wrong it usually is.

☐	Brickwork / Blockwork	☐	Design	☐	DFMA (Offsite Manufacture)	☒	Doors & Windows	☐	Drainage	☐	Electrical	☐	FFE (Furnishings, Fixing & Equipment)
☐	Fire & Lightening	☒	Floor Coverings	☐	Frames & Superstructure	☐	Internal Walls, Partitions & Ceilings	☐	Joinery & General Carpentry	☐	Miscellaneous	☐	Painting
☐	Public Health (Water)	☐	Roads, Paths, Paving & Surfacing	☐	Roof	☐	Services & Systems	☐	Site Preparation Works	☐	Substructure	☐	Walling (Tiling & Finished)

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