



# TECHNICAL OPINION

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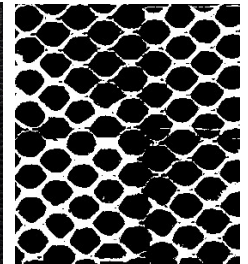
Revised: 30/7/13

## EXAMINATION OF A NATURAL SHELL MOSAIC TILE

Samples of sheet mosaic tiles were received for examination to make adhesive recommendations. The tiles were received from Vulcano Design and were to be used for internal, external, wet and fully immersed applications.

### Sample description

The tiles were mesh backed mosaics (stated to be natural shell) 290x290mm with individual tiles 19x19x1.5mm. The tile pattern was 'mother of pearl' appearance. The mesh backing was fabric with a polygonal pattern and an approximate coverage of 26% of the rear tile face. The mesh adhesive did not appear to be smeared over the rear of the tile face.



Mesh coverage pattern of ~26%.

### Basis of opinion

Visual examination. A sample was removed and immersed in water to determine whether the mesh adhesive was soluble. It was found that the adhesive softened slightly, but did not turn white or lose contact with the tile rear face.

### Recommendation

**Ardex recommends that these tiles can be bonded in the following applications on rendered or prepared masonry or appropriate internal fibre-cement sheets / plasterboard. The tile thinness makes grouting problematic.**

- 1) **Dry internal walls and also wet area walls—Ardex D11, D1 or D2 (non water-proofed).**
- 2) **Internal wet area walls and floors— Ardex MPP, Optima, WA Epoxy, X77+Ardex E90, Ardex STS8+Ardex E90.**
- 3) **External walls and floors -Ardex Optima, WA Epoxy (non-exposed), X77+Ardex E90, Ardex STS8+Ardex E90.**
- 4) **Fully immersed applications-Ardex Optima, WA Epoxy. Note that the mesh exceeds 15% coverage of the rear face, but the glue appeared stable. It is imperative that full adhesive coverage be obtained with no voids due to the reduced actual contact.**

### Certificate Conditions

This certificate and recommendations apply only to the tiles described herein

This certificate has a period of validity of 24 months from date of issue

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