



TECHNICAL SERVICES REPORT

TSD 1024-001

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Prepared By: Chris Brady
Prepared For: Nick Pennimpede
Customer: Robert Hawkins – Vulcano Design
Tiles Evaluated: Moroccan Tiles

BACKGROUND

An assortment of tiles were supplied for testing to the ARDEX Technical Services Department in Seven Hills for adhesive recommendations. The intended applications are for internal and external walls and floors.



The Moroccan Tiles were of an encaustic design with a noticeable amount of lightly bound 'release agent' on the rear of the tiles. This surface contamination was successfully removed via brushing the rear surface with a stiff nylon brush which revealed the true tile body.

METHOD

Separate tests were performed due to the presence of different tile types.

Moroccan tiles:

A prepared concrete block (400mm x 400mm x 50mm thick) was primed with **ARDEX Multiprime** and allowed to dry for 30 minutes prior to adhesive application. The Encaustic tiles supplied possessed a loose and powdery rear surface which was brushed/wiped prior to adhesive bonding.

Note: The tiles were applied according to the test method described in ISO13007-2.



The adhesives tested consisted of:

ARDEX WA100

ARDEX S28

ARDEX X18

The tile adhesives were allowed to cure at standard laboratory conditions (23°C and 50% RH).

Tensile 'Pull Off' tests were conducted 14 days after application of the tiles. A control tile was tested with ARDEX X18 for comparison.

RESULTS

Moroccan tiles:

The tensile results were within expectation, with each of the tested adhesives displaying enough strength for wall and floor applications. As the front face of the tiles are glassy and pigmented, there was no potential cause for concern regarding staining from adhesive exposure.

CONCLUSION

All adhesive combinations provided satisfactory 14 day tensile results for the Moroccan Tiles. Adequate adhesion for these tiles is based on the condition that prior to laying, all loose matter is first removed from rear face of the tiles.

Moroccan Tiles:

Suitable ARDEX adhesives for fixing the Moroccan Tiles are:-

1. **ARDEX WA100 Epoxy Adhesive***
2. **ARDEX S28 (Internal only)***
3. **ARDEX X18 with or without ARDEX E90***
4. **ARDEX X68 with or without ARDEX E90***



**Note: Successful adhesion to the tile requires removal of all loose particulate material on the tile rear face prior to tiling.*

Suitable ARDEX grouts for grouting the Moroccan Tiles are:-

1. **ARDEX EG15** Epoxy Grout
2. **ARDEX WA** Epoxy Grout
3. **ARDEX FG8** grout with or without **ARDEX Grout Booster**.
4. **ARDEX FSDD** grout with or without **ARDEX Grout Booster**
5. **ARDEX WJ50** grout with or without **ARDEX Grout Booster**

See Technical Datasheets for individual products for further information. Relevant Australian Standards and Codes apply.

Chris Brady
Technical Support Advisor