

27<sup>th</sup> April 2015Test Report 2015-07  
Ref: 2015TA11.

To whom it may concern

**Re:- Adhesive recommendation for use with Magnesium Oxide boards samples supplied by Magnesium Oxide Board Corporation as per attached pictures.**

Sample of Structural boards marked SF, CHSB, and HMR as per attached picture below were submitted to Mapei to obtain recommendations for tile adhesion and waterproofing agents for application to the boards.

The tests conducted were based on the 7 day and 28 dry adhesion open time test.

Multiple test samples of the vitrified tiles were fixed onto the substrates along with several adhesives and primers along with waterproofing agents for the wet area boards. Following the use of various different Mapei adhesive (as per listed below) have been applied onto the substrate and were then left to cure for 7 days and 28 days before testing the pull-off tensile strength as described in the ISO 13007.1-2013

The following Mapei products achieved adequate adhesion under the test conditions, we always had in fact as result the cohesive failure of the boards. This means the adhesion of our product is superior to the cohesive strength of the boards themselves:

**SF and CHSB**

- **Kerabond plus Isolastic 50** (Normal set two-component cement adhesive)
- **Keraflex Maxi S1** (Normal set mono-component cement adhesive)
- **Granirapid** (Rapid set two-component cement adhesive)

All the adhesives above are suitable for the SF boards, and the two-component adhesives above are suitable for the CHSB boards.

**HMR**

- **Mapelastic Aquadefense** (Mono-component waterproofing membrane)
- **Mapelastic Smart** (Two-component waterproofing membrane)

All of our Adhesives are suitable for sticking to these waterproofing membranes.

The above mentioned adhesives were deemed suitable for use with the submitted SF MgO board and the two-component adhesives for the CHSB MgO board samples when mixed and installed correctly. We always had in fact as result the cohesive failure of the boards. This means the adhesion of our product is superior the cohesive strength of the boards themselves

Contact Mapei Technical Services if further product installation is required.

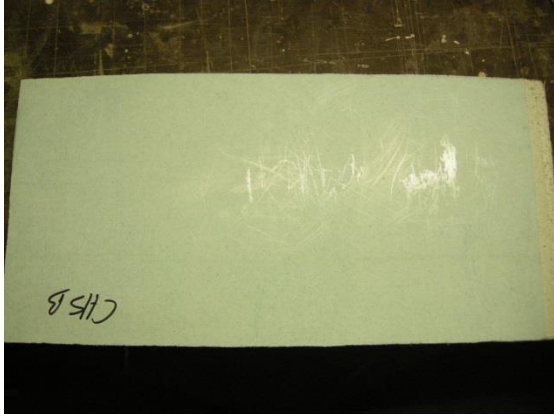
**Disclaimer:**

This report provides guideline information only, it is not a general specification for the application/installation of the products described. Each project in fact may vary in relation to many parameters such as building condition, material used or exposure and the recommendations may vary according. Mapei Australia provides results based on laboratory tests and laboratory conditions in good faith and assumes no responsibility for technical inaccuracies or typographical errors. For specific applications/installations contact the Mapei Australia office.

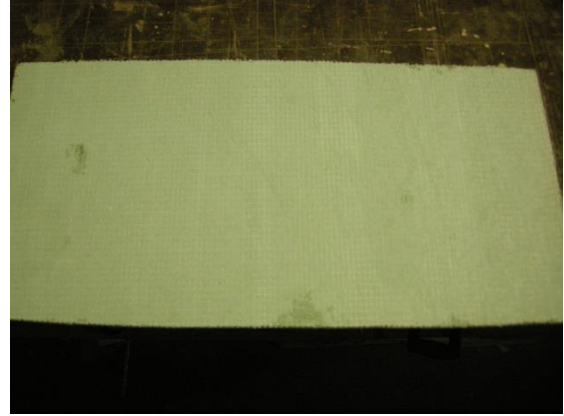
Regards



Nicholas Tilley  
R&D Technical Assistant  
Mapei Australia Pty Lt



Tiling side CHSB board



Back side CHSB board



Tiling side SF board



Back side SF board



Tiling side HMR board



Back side HMR board

