

ocean+ merchant pty ltd

Unit 3 40 - 46 McEvoy Street
Waterloo NSW 2017 Australia
Email: info@oceanandmerchant.com

tel: + 61. 2. 9310 4088

fax: + 61. 2. 9310 4096

Frost Proofing your tiles.

Fundamentally, water always looks for cracks to seep into, this is called capillary action. By seeping down through cracks in the grout and then finding small gaps in the adhesive base underneath the tiles, water will accumulate under the tiles. During frosty nights and cold periods, this water will freeze. Frozen water expands thereby forcing the tiles above, a little higher off the adhesive bed. After thawing, this will allow a little bit more water to enter each time.

Then eventually with the build up of water over many frosts, and the continual expansion and contraction due to weather changes, even the strongest most technical tile will crack under this constant stress.

The best way to ensure that any tiling job done in a frost prone area will not fall victim to these stresses is to use a reputable tiler. To avoid water pooling under tiles 100% adhesion is imperative. Even the best porcelain tile, laid in an outside area will crack if it is incorrectly laid.

DISCLAIMER

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