



Beaumont Tiles Specification SR0777 - 7

Installation of Tiles External Balconies with Mortar Topping Screed

Scope:

Adhesive fixing of ceramic and/or porcelain tiles (excluding moisture sensitive natural stone) up to and larger than 400 x 400mm in size, to external balconies constructed from marine grade plywood with a waterproofed screed.

This general specification is to be read in conjunction with the nominated product data sheets. Additional information may be provided in Ardex Technical Bulletins relevant to this application.

Substrate Preparation:

The balcony construction shall comply with AS1684 with deflection between joists and bearers to be less than 1/360 of the span. Minimum fall of 1:100 is required to prevent water ponding. For tiles larger than 400 x 400mm, the maximum deflection shall be less than 1/500th of the span. Minimum fall of 1:100 is recommended to prevent the ponding of water and may be created in the plywood substrate or by the topping screed.

Topping Screed

A bonded screed applied over a compatible waterproofing membrane requires all substrate sheet joints to be maintained as movement joints through the topping screed and the tile finish. This bonded screed may be from 15 to 40mm thick. An unbonded screed is self-supporting with welded wire reinforcement and a 40mm minimum thickness and can be applied over incompatible membranes or plastic slip sheets without maintaining substrate sheet joints..

Topping screeds are typically 3 to 4 parts (by weight) sand to 1 part Portland cement mixed with 1 volume of **Ardex Abacrete** liquid polymer additive diluted in 3 volumes of water. For bonded topping screeds only, a bonding slurry coat of 2 volumes of Abacrete liquid mixed with 3 volumes of cement is brushed over the surface and the wet topping mortar immediately placed onto the wet slurry.

Waterproofing Membranes applied directly over the substrate

Compatible waterproofing membranes for use with bonded topping screeds are: **ABA Waterproofer, Ardex WPM002, Ardex WPM155, and Barrierflex**

The waterproofing membrane recommended for unbonded toppings is the **Ardex Butynol** rubber sheet membrane.

Waterproofing Membranes for application over the dry topping screed are; **Ardex WPM002; Ardex WPM155, Barrierflex; and Butynol rubber**



Tiling

Adhesive fix the tiles using one of the following Ardex - ABA adhesives.

Abaflex, Glueplus, Powerstik, Super Tileset, Glue; Floorflex (external covered balconies only); **Optima**

Note: only Optima can be used to fix tiles to the Butynol rubber sheet membrane.

Spread the mixed adhesive with a 10 x10mm minimum size notched trowel so that all adhesive lines are parallel. Place the tile, and while pressing firmly down, slid the tile back and forth across the lines of adhesive to collapse the lines and achieve full coverage. Occasionally lift tiles to check full contact has been achieved between the tile and the substrate with no voids in the adhesive layer. If necessary to achieve full contact at the recommended adhesive bed thickness, spread the adhesive with a larger size notched trowel and/or butter additional adhesive directly onto the back of each tile.

Grouting

Once the adhesive has set for 24 hours, grout the tiles using one of the following cement based grouts with or without added Ardex Grout Booster

Ardex FG8 sanded grout for joints 1 – 8mm,

Ardex FS-DD unsanded grout for joints 1 – 4mm

Movement Joints

Movement joints are to be included in the tile finish in accordance with the recommendations of AS3958. These joints are to be (minimum) 6mm wide and raked free of grout and adhesive prior to filling with a flexible sealant such as the Ardex SE silicone sealant (with backing rod in deeper joints).