

SUITABLE SUBSTRATES

- For use on stable substrates such as cured concrete, double layer of plywood, 12.5 mm CBU suitably installed on plywood subfloor, mortar bed suitably installed on plywood subfloor or other rigid subfloor systems (Drawings refer to 311F-A, 313F-A,B,D).
- Dry interiors only, unless provided with a suitable waterproofed structure and sloped to drain.
- Provide a suitable rigid subfloor that is designed to support the maximum loading anticipated for the area to be tiled. Floor systems, including the framing system and subfloor panels, over which the tile will be installed shall be in conformance with the Canadian National Building Code 2005 and applicable local building codes taking into consideration anticipated live and dead loads.

MATERIALS

- TILE
- SELF-LEVELLING UNDERLAYMENT Cement-based, quick-setting, self-leveling, self-drying underlayment for engineer- approved floors, very fluid once mixed, installation from featheredge 6 mm to at least 38 mm in a single application.
Flextile 5900 Flexflo Plus Self-leveling Underlayment with 4040 Primer SL
- CRACK ISOLATION/SOUND CONTROL MEMBRANE – ANSI A118.12
1000 or 2000SC Flexilastic Crack Isolation & Sound Reduction Membrane with 4000 or 4001 Flexilastic Primer (ANSI 118.12)
- UNCOUPLING MEMBRANE, following manufacturer's recommendations
- BOND COAT:
Interior: Flextile 56SR, 61, 62 or 66 Polymer Modified Mortars (ANSI A118.4)
Flexepoxy 100 – 100 % Solid Epoxy Mortar (ANSI A118.3).
Flextile 51 or 53 / 43 or 44 two-component Latex Mortar System (ANSI A118.4)
Flextile 58XT Fast Set two component Latex Mortar System (ANSI A118.4)
Exterior: Flextile 51 or 53 / 43 or 44 two-component Latex Mortar System (ANSI A118.4)
Flextile 58XT Fast Set two component Latex Mortar System (ANSI A118.4)
Use white thin-set mortar for white or light colored stones
- GROUT
Flextile Polymer Modified Grout (ANSI A118.7)
ColourMax Plus Urethane Grout
Flextile Flex-Epoxy 100 – 100% Solids Epoxy Grout (ANSI A118.3) –(Interior only)

APPLICATION

- Measure deflections on the floor or wall using a 10ft straight-edge prior to commencing any installation.
- Apply crack isolation membrane (ANSI A108.17) or uncoupling membrane following manufacturer's recommendations to provide complete coverage of the substrate in the area on which the large format tile is to be installed. Use recommended notch trowel for setting larger format tiles. Apply mortar into substrate with flat side of trowel. This ensures complete contact to the pores of the substrate. It is very important that complete coverage be achieved by back buttering each piece of tile with thin-set mortar immediately prior to setting the tile to ensure that no voids are present against the back of the tile. Install tile in accordance with ANSI A 108.5.
- Periodically check coverage and bond by picking up freshly installed tile and inspecting. Be sure to remove contaminants on the back of tile so as ensure proper adhesion of tile to thin-set.
- Apply tile to bond coat before bond coat skins over. Use sufficient bond coat to ensure minimum 95% contact. Contact shall be evenly distributed to give full support of the tile. Slide tile firmly into position. Allow bond coat to cure. Force grout into full depth of joint, remove excess grout and clean.

LIMITATIONS

- Manufacturer's recommendations must be followed.
- Maximum variation of slab should not exceed 6 mm in 3049 mm or 2 mm in 305 mm.
- For tiles larger than 381 mm x 381 mm and or grout joints of 5 mm or less, more stringent tolerance of 3 mm in 3049 mm is required. For tile larger than 152 mm x 305 mm with a running bond pattern shall be increased proportionally by the amount of warpage in the tile. Example if there is warpage of 2 mm the grout joint shall be 6.5 mm (4.5 mm + 2 mm = 6.5 mm).
- Provide positive drainage below exterior slabs; use latex-Portland cement mortars on exterior slabs. Use of epoxy mortars and grouts is recommended for interior surfaces only or where improved chemical resistance is required.
- Use method 309F-2009/2010 or crack isolation/uncoupling membrane if recommended by the manufacturer for precast floor systems, post tensioned concrete floor systems and other floors subject to movement or deflection.

OTHER CONSIDERATIONS

- For exterior installations, use a suitable latex-Portland cement mortar or manufacturer's recommendations. Back-buttering of the tile is required to achieve 95% contact.
- Tile used in exterior applications must be frost resistant.
- Refer to Notes For The Professional and 301MJ-2009/2010.
- Waterproof membrane if required must be specified. (ANSI A118.10-1999) Follow manufacturer's recommendations
- For exterior use concrete slab must be sloped to provide positive surface drainage and adequate drainage below slab must be provided.
- Movement Joint (architect must specify type of joint and show location and details on drawings)



The above installation detail is used with the permission of the Terrazzo Tile & Marble Association of Canada. The installation products shown are Flextile's product recommendations for this specific detail, and are not intended to replace TTMAC's original generic specification.