

TILE INSTALLED ON INTERIOR/EXTERIOR CEMENT MORTAR BED ON CONCRETE SLAB

310F-2009/2010

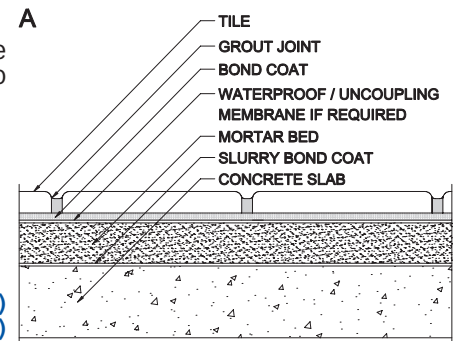
DETAIL A

SUITABLE SUBSTRATES

- Floor systems 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
- MORTAR BED
 - **Flextile Dry Pack Mortar with Flextile 57 Slurry Bond Coat**
 - BOND COAT (on minimum 24 hour cured Mortar Bed)
- Interior:
 - **Flextile 60, 50, 52, 56SR, 58, 61, 62 or 66 Polymer Modified Mortars (ANSI A118.4/A118.11)**
 - **Flextile 51 or 53/43 two-component Latex Mortar System (ANSI A118.4/A118.11)**
 - **Flextile 51 or 53/44 two-component Latex Mortar System (ANSI A118.4/A118.11)**
 - **Flextile 58XT Fast Set two-component Latex Mortar System (ANSI A118.4/A118.11)**
- BOND COAT (on minimum 7 day cured mortar bed)
- Interior:
 - **Flextile Flex-Epoxy 100 – 100% Solids Epoxy Mortar (ANSI A118.3)**
- Exterior:
 - **Flextile 51 or 53/44 two-component Latex Mortar System (ANSI A118.4/A118.11)**
 - **Flextile 58XT Fast Set two-component Latex Mortar System (ANSI A118.4/A118.11)**
- GROUT
- Interior:
 - **Flextile Polymer Modified Polymer Modified Grout (ANSI A118.7)**
 - **Flextile Flex-EPOXY 100 – 100% Solids Epoxy Grout (ANSI A118.3)**
 - **ColourMax Plus Urethane Grout**
- Exterior:
 - **Flextile 600 Polymer Modified Polymer Modified Grout (ANSI A118.7)**
 - **ColourMax Plus Urethane Grout**



APPLICATION

- Apply mortar bed (see Tile Guide Specification Section Mixes 2.5.5) to required thickness over fresh slurry bond coat (see Tile Guide Specification Section Mixes 2.5.2). Finished tolerance of mortar bed not to exceed 6 mm in 3049 mm or 2 mm in 305 mm. Apply tile to bond coat before bond coat skins over. Use sufficient bond coat to ensure minimum 95% contact on exterior surfaces and wet areas and minimum of 80% contact on interior. Contact shall be evenly distributed to give full support of the tile. On fresh mortar bed, beat tile into position. On dry-set mortar, slide tile into position. Beat mosaic tile 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.
- The thickness of the mortar bed should be 32 mm minimum interior and 38 mm minimum exterior.

OTHER CONSIDERATIONS

- Latex additive is recommended for Portland cement bond coat, and may be used in modification of mortar bed. Follow manufacturer's recommendations.
- Tile used on exterior applications must be frost resistant.
- For industrial and chemical resistant floors use the appropriate setting and grouting materials as per manufacturer's recommendations. Must meet extra heavy duty rating. See page 25.
- Refer to Notes For The Professional and 301MJ- 2009/2010.
- If installation is over an occupied living space, use Detail 325ED-2009/2010 Detail A.
- Waterproof membrane if required must be specified. (ANSI A118.10-1999) Follow manufacturer's recommendations.
- For moderate commercial to industrial applications for tile that are larger than 305 mm x305 mm, a minimum of 95% coverage must be achieved.



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.

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310F-2009/2010 DETAIL B - CHEMICAL RESISTANCE

SUITABLE SUBSTRATES

- Interior only concrete slab where chemical resistance is desired. Suitable for food plants, dairies, breweries and commercial kitchens. Concrete floor systems, 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
- BOND COAT (on minimum 24 hour cured Mortar Bed)
- **Interior:**
Flextile 60, 50, 52, 56SR, 58, 61, 62 or 66 Polymer Modified Mortars (ANSI A118.4/A118.11)
Flextile 51 or 53/43 two-component Latex Mortar System (ANSI A118.4/A118.11)
Flextile 51 or 53/44 two-component Latex Mortar System (ANSI A118.4/A118.11)
Flextile 58XT Fast Set two-component Latex Mortar System (ANSI A118.4/A118.11)
- BOND COAT (on minimum 7 day cured mortar bed)
- **Interior:**
Flextile Flex-Epoxy 100 – 100% Solids Epoxy Mortar (ANSI A118.3)
Exterior:
Flextile 51 or 53/44 two-component Latex Mortar System (ANSI A118.4/A118.11)
Flextile 58XT Fast Set two-component Latex Mortar System (ANSI A118.4/A118.11)
- GROUT
- **Interior:**
Flextile Flex-EPOXY 100 – 100% Solids Epoxy Grout (ANSI A118.3)
ColourMax Plus Urethane Grout
Exterior:
ColourMax Plus Urethane Grout

APPLICATION

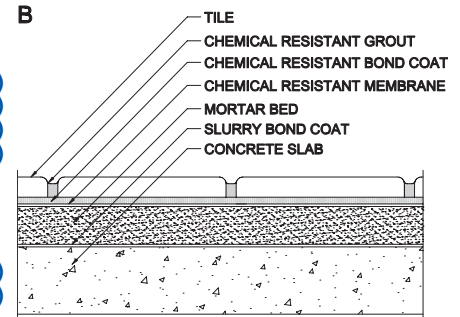
- Apply mortar bed (see Tile Guide Specification Section 2.5.5) to required thickness over fresh slurry bond coat (see Tile Guide Specification Section 2.5.2). Finished tolerance of mortar bed not to exceed 6 mm in 3049 mm or 2 mm in 305 mm. Apply chemical resistant membrane to mortar bed as recommended by manufacturer. Apply tile to bond coat before bond coat skins over. Use sufficient bond coat to ensure a minimum 80% contact on tile back. If 95% coverage is specified refer to 3.3.10. Contact shall be evenly distributed to give full support of the tile. Allow bond coat and grout to cure as recommended by the manufacturer for the type of environment and exposure anticipated. Force grout into full depth of joint, flush with tile surface. Remove excess grout by using fl oat at a 90° angle and clean with a sponge and plenty of water.

LIMITATIONS

- Thickness of the mortar bed should be 32 mm minimum.
- Epoxy grout should not be used where subjected to heat surpassing 100° C or as per manufacturer's recommendations. Use furan resin grout for areas subjected to excessive heat.

OTHER CONSIDERATIONS

- Refer to Notes For The Professional and 301MJ-2009/2010.
- Movement joints must be chemical resistant sealant or prefabricated movement joints.
- Waterproof membrane if required must be specified. (ANSI A118.10-1999) Follow manufacturer's recommendations.
- Uncoupling membrane installed as manufacturer's recommendations
- For moderate commercial to industrial applications for tile that are larger than 305 mm x305 mm, a minimum of 95% coverage must be achieved.



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