

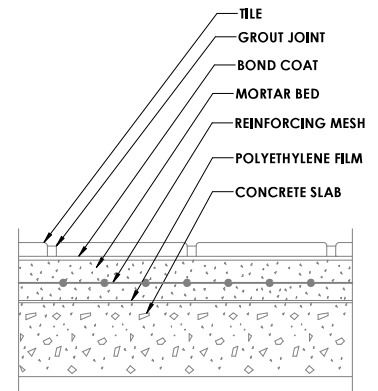
TILE OVER MORTAR BED WITH CLEAVAGE MEMBRANE INTERIOR ONLY 309F-2019-2021

SUITABLE SUBSTRATES

- Floor systems over which the tile will be installed shall be in conformance with the National Building Code 2015 and applicable local building codes taking into consideration anticipated live and dead loads.

MATERIALS

- TILE
- CLEAVAGE MEMBRANE – 0.10 mm (6 mils) polyethylene (optional 15 lb felt).
- REINFORCING MESH – 51 mm x 51 mm x 1.6 mm – welded wire/fabric (galvanized square wire mesh) (ASTM A82, ASTM A185).
- BOND COAT – Portland cement slurry on fresh mortar bed or dry set (minimum acceptable standard ANSI A118.1 or ISO 13007 C1), latex-Portland cement mortar (minimum acceptable standard ANSI A118.4 or ISO 13007 C2) or modified epoxy emulsion mortars (minimum acceptable standard ANSI A118.3 or ISO 13007 R1) over mortar bed, cured for minimum of 24 hours. 100% solid epoxy mortar on mortar bed, cured for a minimum of 7 days.
- GROUT – Portland cement, latex-Portland cement grout (minimum acceptable standard ANSI A118.6 or ISO 13007 CG1) or epoxy grout (minimum acceptable standard ANSI A118.3 or ISO 13007 RG).



APPLICATION

- Maintain a minimum of 16 mm of mortar under wire reinforcement. Apply mortar bed (see Tile Guide Specification Section Mixes 2.9.2.5) to required thickness. Finished tolerance of mortar bed not to exceed 6 mm in 3000 mm or 2 mm in 300 mm. For large format tile where any side is greater than 380 mm surface variation should not exceed 3 mm in 3000 mm and 1.5 mm in 600 mm. For tile with any edge longer than 380 mm use sufficient bond coat to ensure minimum 95% contact, with the corners and edges fully supported. Apply bond coat to mortar bed surface. Use proper notched trowel to ensure adequate bond. Place the tiles firmly into the wet bond coat. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage. Use sufficient bond coat to ensure minimum 95% contact on exterior installations and wet areas (it may be necessary to back-butter the tile in order to meet this requirement) and minimum 80% on interior dry areas. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting. Allow bond coat to cure. Force grout into the joints with a rubber grout float. Make sure all joints are well-compacted and free of voids and gaps. Remove excess grout from the tile surface and clean.

LIMITATIONS

- Manufacturer's recommendations must be followed.
- The thickness of the mortar bed should be 32 mm to 51 mm minimum unless otherwise stated by manufacturer.

OTHER CONSIDERATIONS

- Latex additive used in place of water is recommended for Portland cement bond coat, and may be used in modification of mortar bed.
- Where required for chemical resistance, 100% solids epoxy setting material and/or grout should be used.
- Refer to Notes for the Professional and 301MJ-2019-2021.
- Refer to notes on Crack Isolation Membranes and 311F-2019-2021 Detail C.