

GENERAL CONDITIONS

All substrates to receive ceramic tile, stone, thin brick or similar hard architectural finishes installed by the thin-bed method, including where Cementitious Backer Units (CBU) are installed, must be structurally sound, clean and not deflect more than L/360 for ceramic tile and L/480 for stone (where L = span) under all distributed or concentrated live and dead loads.

All CBU must comply with American National Standards Institute, Inc. (ANSI) "Standards for Test Methods and Specifications for Cementitious Backer Units {A118.9}" – latest edition. CBU installation must comply with ANSI "Interior Installation of Cementitious Backer Units {A108.11}" – latest edition.

Provide movement/expansion joints for ceramic tile, stone and thin brick installations as per Tile Council of America, Inc. (TCA) "Handbook for Ceramic Tile Installation {Movement Joint Design Essentials EJ171}" – latest edition.

INTERIOR WOOD FLOORS

- Refer to T.D.S. 152 for additional information on wood floor construction and requirements.
- Lay out the CBU installation so the long side of each board runs perpendicular to, and is offset from, the main joints/seams in the wood substrate.
- Remove sawdust, dirt, dust or other contaminants from the wood substrate.
- Over clean **exterior grade plywood** substrates, apply mortar or adhesive as a bond coat. Lay the CBU into the bond coat while the surface is still wet and tacky. Spread only as much bond coat as can be covered in 15–20 minutes. Remove any mortar or adhesive that has "skinned over" and re-apply fresh material. Recommended mortars:
 - LATAPOXY® 300 Epoxy Adhesive;
 - LATAPOXY 210 Modified Epoxy Adhesive;
 - LATICRETE® 333 Super Flexible Additive plus LATICRETE 272 Premium Floor N' Wall Thin-Set Mortar;
 - LATICRETE 333 Super Flexible Additive plus LATICRETE 317 Floor N' Wall Thin-Set Mortar;
 - LATICRETE 333 Super Flexible Additive plus LATICRETE 220 Marble & Granite Mortar;
 - LATICRETE 101 Rapid-Set Latex Admix plus LATICRETE 272 Premium Floor N' Wall Thin-Set Mortar;
 - LATICRETE 101 Rapid-Set Latex Admix plus LATICRETE 317 Floor N' Wall Thin-Set Mortar;
 - LATICRETE 101 Rapid-Set Latex Admix plus LATICRETE 220 Marble & Granite Mortar;
 - LATICRETE 254 Platinum Multipurpose Thin-Set Mortar;
 - LATICRETE 253 Gold Multipurpose Thin-Set Mortar;
 - LATICRETE 253 Gold Rapid Multipurpose Thin-Set Mortar;
 - LATICRETE 252 Silver Multipurpose Thin-Set Mortar.
- Over clean **hardwood strip or Oriented Strand Board (OSB)** substrates, make a "full spread" application of construction adhesive as a bond coat. Lay the CBU into the bond coat while the surface is still wet and tacky. Spread only as much bond coat as can be covered in 15–20 minutes. Remove any construction adhesive that has "skinned over" and re-apply fresh material.
Recommended construction adhesive: Liquid Nails® PL2000 or equivalent.
- Over **all wood** substrates, also fasten the CBU with 7/8" (22mm) minimum length, non-rusting, self-embedding wood screws. Fasten boards every 6" (150mm) at the edges and every 8" (200mm) in the field.
- Tape all the board joints with the alkali resistant 2" (50mm) wide reinforcing mesh provided by the CBU manufacturer imbedded in the same mortar or epoxy adhesive used to install the ceramic tile, stone or thin brick (see below).
- To prevent water leakage through the floor, apply LATICRETE 9235 Waterproofing Membrane or LATICRETE Watertight Floor N' Wall Waterproofing over the CBU before installing ceramic tile, stone or thin brick (refer to Data Sheets 236.0, 649.0 and WPAF.5 for additional information).
- Install ceramic tile, stone or thin brick with any of the mortars or epoxy adhesives recommended for bonding CBU to **exterior grade plywood** substrates (see above). In addition, the following installation materials may also be used:
 - LATICRETE 38 Acrylic Admix plus LATICRETE 272 Premium Floor N' Wall Thin-Set Mortar;
 - LATICRETE 38 Acrylic Admix plus LATICRETE 317 Floor N' Wall Thin-Set Mortar;
- Install the ceramic tile, stone or thin brick in the following manner:



Wipe CBU with a damp sponge to remove dust and to increase working/adjustability time over hot, dry surfaces.

Apply the mortar or epoxy adhesive, using the flat side of the trowel to work the material into good contact with the CBU. Then comb on additional mortar or epoxy adhesive with the notched side of the trowel. Spread only as much mortar or epoxy adhesive as can be covered in 15–20 minutes. Use the correct size notched trowel and “back butter” the tiles if necessary to achieve the correct coverage and bedding. “Back butter” all tiles larger than 8”x 8” (200mm x 200mm) in facial area. Beat the tiles into the mortar or adhesive with a rubber mallet or beating block. Check your bond periodically by removing a tile and verifying the extent of coverage – insure that tiles are fully bedded with a minimum 3/32” (2.5mm) thick continuous layer of mortar or epoxy adhesive.

- Once the tiles set firm, grout with:
LATICRETE SpectraLock Grout®
LATAPOXY® SP-100 Stainless Epoxy Grout for Floors and Walls;
LATICRETE Tri-Poly Fortified Sanded Grout (1500 Series) and LATICRETE 1776 Grout Admix Plus;
LATICRETE Tri-Poly Fortified Unsanded Grout (1600 Series) and LATICRETE 1776 Grout Admix Plus.
- For full installation information, refer to individual product package instructions and Data Sheets.
- **Caution: use LATAPOXY 300 Epoxy Adhesive to install water sensitive marble and agglomerates.**
- **Caution: to install white or light colored stone, use white LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar, LATICRETE 317 Floor N’ Wall Thin-Set Mortar or LATICRETE 220 Marble & Granite Mortar (mixed with the LATICRETE Latex Additives indicated above) or white LATICRETE 254 Platinum Multipurpose Thin-Set Mortar, LATICRETE 253 Gold Multipurpose Thin-Set Mortar, LATICRETE 253 Gold Rapid Multipurpose Thin-Set Mortar or LATICRETE 252 Silver Multipurpose Thin-Set Mortar.**

INTERIOR WALLS OVER WOOD FRAMING*

- Fasten the CBU with 7/8” (22mm) minimum length, non-rusting, self-embedding screws for wood studs. Fasten the boards every 6” (150mm) at the edges and every 8” (200mm) in the field. Tape all the board joints with the alkali resistant 2” (50mm) wide reinforcing mesh (provided by the CBU manufacturer) imbedded in the same mortar used to install the ceramic tile, stone or thin brick (see below).
- To prevent water leakage through walls, especially in bathroom areas such as tub surrounds and showers, apply LATICRETE 9235 Waterproofing Membrane or LATICRETE Watertight Floor N’ Wall Waterproofing over the CBU before installing ceramic tile, stone or thin brick (refer to Data Sheets 236.0, 649.0 and WPAF.5 for additional information).
- Install ceramic tile, stone or thin brick with:
LATAPOXY 300 Epoxy Adhesive;
LATAPOXY 210 Modified Epoxy Adhesive;
LATICRETE 4237 Latex Thin-Set Mortar Additive plus LATICRETE 211 Crete Filler Powder;
LATICRETE 4237 Latex Thin-Set Mortar Additive plus LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar;
LATICRETE 4237 Latex Thin-Set Mortar Additive plus LATICRETE 317 Floor N’ Wall Thin-Set Mortar;
LATICRETE 3701 Mortar Admix plus LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar;
LATICRETE 3701 Mortar Admix plus LATICRETE 317 Floor N’ Wall Thin-Set Mortar;
LATICRETE 333 Super Flexible Additive plus LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar*;
LATICRETE 333 Super Flexible Additive plus LATICRETE 317 Floor N’ Wall Thin-Set Mortar*;
LATICRETE 333 Super Flexible Additive plus LATICRETE 220 Marble & Granite Mortar*;
LATICRETE 38 Acrylic Admix plus LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar;
LATICRETE 38 Acrylic Admix plus LATICRETE 317 Floor N’ Wall Thin-Set Mortar;
LATICRETE 101 Rapid-Set Latex Admix plus LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar;
LATICRETE 101 Rapid-Set Latex Admix plus LATICRETE 317 Floor N’ Wall Thin-Set Mortar;
LATICRETE 101 Rapid-Set Latex Admix plus LATICRETE 220 Marble & Granite Mortar;
LATICRETE® 255 MultiMax Multipurpose Thin-Set Mortar;



LATICRETE 254 Platinum Multipurpose Thin-Set Mortar;
LATICRETE 253 Gold Multipurpose Thin-Set Mortar;
LATICRETE 253 Gold Rapid Multipurpose Thin-Set Mortar;
LATICRETE 252 Silver Multipurpose Thin-Set Mortar;
LATICRETE 15 Premium Multi-Mastic Adhesive†;
LATICRETE 9 Ceramic Tile Adhesive†.

* Note: for applications that are not continuously submerged.

† Do not use in wet areas.

- Apply the mortars or adhesives recommended above in the following manner:
Wipe CBU with a damp sponge to remove dust and to increase working/adjustability time over hot, dry surfaces.
Apply the mortar or adhesive, using the flat side of the trowel to work the material into good contact with the CBU. Then comb on additional material with the notched side of the trowel. Spread only as much material as can be covered in 15–20 minutes. Use the correct size notched trowel and “back butter” the tiles if necessary to achieve the correct coverage. “Back butter” all tiles larger than 8”x 8” (200mm x 200mm) in facial area. Beat the tiles into the mortar or adhesive with a rubber mallet or beating block. Check your bond periodically by removing a tile and verifying the extent of coverage – insure that tiles are fully bedded with a minimum 3/32” (2.5mm) thick continuous layer of mortar/epoxy adhesive or minimum 1/32” (1mm) thick continuous layer of organic adhesive.
- Once the tiles set firm, grout with:
LATICRETE SpectraLock® Grout
LATAPOXY® SP-100 Stainless Epoxy Grout for Floors and Walls;
LATICRETE Tri-Poly Fortified Sanded Grout (1500 Series) and LATICRETE 1776 Grout Admix Plus;
LATICRETE Tri-Poly Fortified Unsanded Grout (1600 Series) and LATICRETE 1776 Grout Admix Plus;
- For full installation information, refer to individual product package instructions and Data Sheets.
- **Caution: use LATAPOXY® 300 Epoxy Adhesive to install water sensitive marble and agglomerates.**
- **Caution: to install white or light colored stone, use white LATICRETE 211 Crete Filler Powder, LATICRETE 272 Premium Floor N’ Wall Thin-Set Mortar, LATICRETE 317 Floor N’ Wall Thin-Set Mortar or LATICRETE 220 Marble & Granite Mortar (mixed with the LATICRETE Latex Additives indicated above) or white LATICRETE 254 Platinum Multipurpose Thin-Set Mortar, LATICRETE 253 Gold Multipurpose Thin-Set Mortar, LATICRETE 253 Gold Rapid Multipurpose Thin-Set Mortar or LATICRETE 252 Silver Multipurpose Thin-Set Mortar.**

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