



**Globally Proven
Construction Solutions**

AKDO: White Marble Mounted Mosaic Tiles



SCOPE

Applies to installations of **White Marble Mounted Mosaic Tiles** manufactured/supplied by **AKDO** on interior walls, dry areas only.

NOTES TO SPECIFIER

- LATICRETE® International, Inc. champions the use of Quality Labor for all tile and stone installations, specifically those represented by the NTCA Five Star Contractor Program (www.tile-assn.com/Member/FiveStar), the TCAA Trowel of Excellence Program (www.tcaainc.org/trowel-of-excellence.php), and the LATICRETE® Most Valued Partner (MVP) Program (www.laticrete.com/contractors/mvp_site.aspx).
- A LATICRETE® "System" approach to installation is covered by a comprehensive 25 year warranty (Reference LATICRETE DS 025.0APD) for all interior wall installations.
- Please contact your local LATICRETE® representative for assistance @ (800) 243-4788 ext. 0
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INSTALLATION MATERIALS

Tiles: **White Marble Mounted Mosaic Tiles** produced by **AKDO:** <http://www.akdo.com/> .

Latex-Portland Cement Thick Bed Mortar (wall renders): LATICRETE® 3701 Fortified Mortar

100% Solids Epoxy Thinset Mortar: LATAPOXY® 300 Epoxy Adhesive (for rigid metal substrates)

Latex-Portland Cement Grout: LATICRETE® PERMACOLOR® Select NS Grout or LATICRETE® 1600 Series Unsanded Grout

Sealer: LATICRETE® STONETECH® Heavy Duty Grout Sealer

100% Silicone Caulk: LATICRETE® LATASIL™ and LATICRETE® LATASIL 9118 Primer

Tile and stone installation materials to be supplied solely by LATICRETE® International, Inc.; Bethany, CT; USA Telephone: 1 (203) 393-0010; Fax: 1 (203) 393-1684; E-mail: technicalservices@laticrete.com; Website: www.laticrete.com.

PREPARATIONS

Prior to commencing installation, the Contractor is to examine substrates and advise the General Contractor and Architect of all existing conditions and surface contamination which will require correction, before the work commences. Before starting, substrates are to be cleaned to remove concrete curing compounds, sealers, soil, mortar, dirt, dust, paint, etc. Curing compounds and sealers must be removed by bead-blasting, grit / sand blasting, hydro blasting, diamond wheel grinder with dustless vacuum attachment, or equivalent methods of mechanical scarifying. For tiles with edges shorter than 15" (375mm), maximum allowable substrate variation is ¼" in 10' (6mm in 3m) from the required plane, with no more than 1/16" variation in 12" (1.5mm variation in 300mm), when measured from the high points in the surface. Use LATICRETE® 3701 Fortified Mortar For trueing and flattening of masonry wall substrates. Dry and dusty concrete and masonry surfaces are to be water washed, with excess water removed, just prior to the application of LATICRETE Systems Materials.

EXPANSION AND CONTROL JOINTS

Provide control or expansion joints as located in contract drawings and in full conformity, especially in width and depth, with architectural details.

- Substrate joints must carry through, full width, to surface of tile.
- Install expansion joints in tile over construction/cold joints or control joints in substrates.
- Install expansion joints where tile, abut restraining surfaces (such as perimeter walls, curbs, columns), changes in plane and corners.
- Joint width and spacing depends on application - follow TCNA **“Handbook for Ceramic, Glass, and Stone Tile Installation”** Detail "EJ-171 Expansion Joints" or consult sealant manufacturer for recommendation based on project parameters.
- Joint width: $\geq \frac{1}{8}$ " (3mm) and ≤ 1 " (25mm).
- Joint width: depth ~2:1 but joint depth must be $\geq \frac{1}{8}$ " (3mm) and $\leq \frac{1}{2}$ " (12mm).

MIXING

Mix according to printed product instructions included with each LATICRETE® product package.

WALL TILE INSTALLATION

Wall Renders (Scratch & Brown Method): No slurry bond coat is required prior to placing wall renders. Apply LATICRETE® 3701 Fortified Mortar with a steel trowel pressing mortar into good contact with the substrate. Apply “scratch coat” first – not to exceed 1/2" (12 mm) thickness. Scratch mortar before it hardens. After “scratch coat” hardens, apply the “brown or float coat” working the mortar into good contact with the scratch coat. Do not exceed 5/8" (15 mm) thickness per lift. Scratch all lifts that will receive additional float coats. Float wall with steel trowel and straight edges to form a plumb and true mortar surface. Allow the completed render coats to cure for 24 hours at 70°F (21° C) prior to the installation of tile with the Thin Bed Method.

Thin Bed Method: Install LATICRETE® Glass Tile Adhesive Mortar in compliance with current revisions of ANSI A108.02, A108.1B and ANSI A108.5. Use the appropriate trowel notch size to ensure proper bedding of the tile selected. Work the thinset into good contact with the substrate and comb with notched side of trowel. Spread only as much thinset as can be covered while the mortar surface is still wet and tacky. When installing glass tiles, use LATICRETE® Glass Tile Adhesive Mortar back-buttering tiles to assure 100% coverage and prevent visible mortar ribbons. When installing over rigid and PVC substrates, use LATAPOXY® 300 Epoxy Adhesive. Allow installation to set until firm. Clean excess latex Portland cement mortar from tile surfaces and joints between pieces.

UNSANDED CEMENT GROUT INSTALLATION

LATICRETE® PERMACOLOR® Select NS is an advanced, high performance cement grout that offers the industry's first dispensable dry pigment solution. LATICRETE PERMACOLOR Select NS is designed for virtually all types of residential and commercial installations and offers optimum performance on the most demanding exterior or interior applications. Easy to mix, grout and clean, LATICRETE PERMACOLOR Select NS is fast setting and is suitable for joints 1/16" to 1/2" (1.5mm – 12mm) wide on floors or walls.

Surface Preparation - Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Note: when grouting in hot weather refer to TDS 176 Hot Weather Tiling and Grouting. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary. Refer to TDS 400 Grout Guide for more information on grouting.

Mixing - Use approximately .9-1 qts (1.0-1.13L) of clean potable water for 8 lbs (3.6 kg) carton. Then take (1) Pigment Packet from the PERMACOLOR Select Color Kit and place in the water and agitate until the pigment is dispersed within the water. Then add the PERMACOLOR Select NS Grout Base to the water and pigment and mix slowly either by hand or with a slow speed mixer to a smooth, stiff consistency. Allow to slake for 5– 10 minutes and remix for 1 minute. Application Dampen tile surface with water. Spread with a

sharp, firm rubber grout float. Work the grout paste into the joints until completely filled. Use diagonal strokes to pack the joints. Ensure that joint is filled and grout is not just sitting on top (i.e. “bridging the joint”).
Cleaning Grout Primary Cleaning—Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material.
Grout Secondary Cleaning—Remove remaining grout with a damp sponge (not wet) or a damp towel. Work diagonally to the joints. Allow to dry. When the grout joints are firm polish the surface with a coarse nylon pad or coarse cloth and minimal water. Note: Use caution when polishing soft glazed tiles or polished stone.

Grout Sealer:

Read entire label before using. Use only as directed. Always test in a small inconspicuous area with a 24-hour cure time to determine ease of application and desired results. Allow new grout installations to cure for at least 72 hours prior to application. Be sure surface is clean, thoroughly dry and free of waxes and coatings. Surface temperature should be between 50 °F and 80 °F (10 °C and 26.7 °C) before sealing. Ensure work area is well-ventilated during application and until surface is dry. Keep children and pets out of the area until treated surface is dry.

1. Apply directly onto grout lines and joints to thoroughly wet surface using a paint pad, roller or brush. Avoid applying sealer on unintended surfaces.
2. Allow sealer to completely penetrate into the grout, 5–15 minutes.
3. Liberally apply a second coat following steps 1–2.
4. Wipe up all sealer from the surface of the tile. Use a clean, dry, lint-free, cotton towel or mop to remove excess sealer.
5. If sealer was not completely wiped off and a residue appears, wipe entire surface with a towel dampened with sealer. Use a white nylon pad to loosen residue and follow with a clean, white absorbent towel to remove.
6. A full cure is achieved after 24–48 hours; foot traffic may begin in 4 hours. If needed sooner, cover the floor with red rosin paper to protect it until full cure is achieved.
7. Clean tools used during application with water

PROTECTION

- To avoid damage to finished tile work, schedule floor installations to begin only after all structural work, building enclosure, and overhead finishing work are completed.
- Keep all traffic off finished tile floors until they have fully cured. Builder shall provide up to ¾” (19mm) thick plywood or OSB protection over non-staining Kraft® paper to protect floors after installation material has cured. Covering the floor with polyethylene or plywood in direct contact with the floor may adversely affect the curing process of grout and latex/polymer fortified Portland cement mortar.
- Keep floors installed with epoxy adhesive closed to traffic for 24 hrs. at 70°F (21°C), and to heavy traffic for 48 hours @ 70°F (21°C) unless instructed differently by manufacturer.
- Use kneeling boards, or equivalent, to walk/work on newly tiled floors.
- Cure tile work in swimming pools, fountains and other continuous immersion applications for 10 days for epoxy based grout and 14 days for latex Portland cement based grout @ 70°F (21°C) before flood testing or filling installation with water. Extend period of protection of tile work at lower temperatures, below 60°F (15°C), and at high relative humidity (>70% R.H.) due to retarded set times of mortar/adhesives.
- Replace or restore work of other trades damaged or soiled by work under this section.
- Protect exterior veneer installations from exposure to rain for a minimum of 7 days at 70° F (21° C).

COLD WEATHER NOTE

The curing of latex and Portland cement based materials is retarded by low temperatures and finished work should be protected for an extended period of time. Typically, for every 18° F below 70° F (10°C below 21°C), latex and Portland cement based materials take twice as long to cure.

HOT WEATHER NOTE

The evaporation of moisture in Portland cement grouts is accelerated by hot, dry conditions. Apply grout to dampened surfaces & protect freshly spread grout & finished work when installing in temperatures over 95 degrees F (35 degrees C).

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LATICRETE Technical Services provides review of job specifications and plans, project detail planning and review, and provides answers to questions concerning the installation of ceramic tile, brick, marble and stone. Call toll free USA +1 (203) 393-0010. Fax: USA +1 (203) 393-1684. E-mail: technicalservices@laticrete.com, Internet: www.laticrete.com. To obtain a copy of detailed product information, most recent revisions of LATICRETE data sheets, and answers to installation questions, E-mail: technicalservices@laticrete.com or call (800) 243-4788 x.235.

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