# UNIQUE | DESIGN | SOLUTIONS



#### **IMPORTANT!**

Mirror tiles are particularly susceptible to oxidation from cement-based adhesive mortars. This can adversely impact the appearance of your project. We recommend the use of LATAPOXY 300, an epoxy-based adhesive mortar. In any case, be sure to use an epoxy-based adhesive mortar and not a cement-based adhesive mortar when installing mirror tiles.

# MIRROR BACK GLASS TILE CHARACTERISTICS

This material is made of clear and transparent glass. The back of the glass tile is coated with the desired pigment(s) and a white protective coating visible from the back of the tile. The multi-layered protective coating is fired with the tile and ensures that the thin-set mortars will not be visible after installation. The pigments and glass are made from natural minerals and as such the firing process will cause slight variations in shades and size.

# MIRROR GLASS INSTALLATION INSTRUCTIONS

These instructions are meant to be a guide for Mirror tile installations, under normal conditions. *Please follow best practice instructions found in the Tile Council of North America (TCNA) 09300 Handbook for specific installation types*.

## MATERIAL INSPECTION

We always recommend dry-fitting your pattern first to think about your cuts in advance and to make sure you like the pattern. This will also help you choose which pieces go where, which is especially helpful with tiles that have a lot of variation. Due to the nature of the material and production process it may be possible to see through the clear glass on certain angles which can appear as a lighter line along the edges of the glass. This is not a factory defect or deficiency of any kind in the material and should be expected by the end consumer.

\*Always use appropriate personal protective safety equipment when handling, drilling, cutting or grinding glass tile such as (but not limited to) eye, ear and hand protection.

## **SUBSTRATE**

Before you start tiling, make sure that whatever surface the tiles are being installed to will be strong and structurally sound. Cement board, concrete or drywall is best, as these surfaces can handle the moisture of the tiling process. Plywood should be avoided, since the wood will warp with the added moisture and it will also be less waterproof, even after tiling.

## INSTALLATION MATERIALS

- Thin-Set: To avoid affecting the backing of the mirror tile, we strongly recommend LATAPOXY® 300 Epoxy for all installations. Follow the manufacturer's installation instructions.
- Tools: 3/16" or 1/4" square notch trowel should be used when installing our glass material and ridges should be smoothed down with the flat side of the trowel prior to fixing the tiles in the mortar bed. Tiles larger than 3x3 should be back-buttered with a thin continuous layer of the thin set applied with the flat side of the trowel.

- Drying Time: Glass tiles are non-porous: the moisture in the setting materials cannot migrate through the glass and must evaporate slowly through the joints. All setting material, even rapidest mortars need a longer time to cure. Allow thin-set mortar to dry completely for a minimum of 72 hours prior to grouting or otherwise interfering with the fresh installation.
- Cutting: Use a glasscutter (score and snap) with a new diamond wheel for best results when cutting our glass tiles. Wetting the diamond wheel with oil before cutting will produce the smoothest cuts. In some cases it may be possible to use a wet-saw with a new, continuous rim diamond blade specifically designed for cutting glass. Do not use turbo or other notched blades designed for use with porcelain or ceramic as the teeth can cause a coarse cut, resulting in a heavily chipped edge. To cut angles without a wet saw or grinder, drill a small hole at the apex of the angle prior to cutting. In most cases, this will allow the use of a score and snap cutter and avoid small cracks that can happen at the angle. Cut edges and corners will be sharp. Always be sure to smooth the cut edges manually with a diamond hand pad or ceramic dressing stone.
- Drilling: If possible, drill holes before installing tile. Drilling from both sides can ensure a cleaner finish if the hole will be visible after installation. Using a new diamond coring bit (for large holes) or spade bit (for small holes) with a diamond tip made for glass drilling will give the best results. Lubricating the bit and tile surface with a continuous spray of oil/water mix will prolong the life of bits and provide a better-finished edge. When possible, the use of a jig will ensure precise placement of holes to be drilled. When drilling holes for anchoring bolts, plumbing or any other dissimilar material always ensure a minimum of 1/8" clearance around the item is provided to avoid cracking due to disparate expansion and contraction rates or stress transfer.

## **GROUTING**

We recommend the following grouts:

- LATICRETE® SPECTRALOCK® Pro Premium Epoxy Grout and compliant with A118.3 should be used
  for our mirror back glass material. If sanded grout must be used for technical or aesthetic reasons
  (such as with mosaics with larger grout joints), gentle application of grout with a soft rubber float
  is recommended to minimize the possibility of surface scratching. Always test a small area before
  installing. The use of sanded grout with mirror tile is not recommended.
- You can also use a Non-sanded grout that is latex or polymer modified such as LATICRETE Permacolor Select NS or 1600 Series.
- After grouting, wipe off excess surface grout with a slightly damp sponge do not over wash.
   After initial wash has been allowed to haze, wipe once with minimal pressure at a 45-degree angle
   to joints and rinse sponge after wiping once with each side. Any remaining haze can be buffed
   off with a dry towel or cheesecloth after grout surface has dried sufficiently. Grout joints should
   be a minimum of 1/16" and not butt set. Clean excess grout as the work progresses before it has
   hardened completely.
- In the event that a grout haze forms, you can use an acid-free remover such as STONETECH® Epoxy Grout Haze & Coating Stripper to remove it. Acids should never be used for cleaning grout haze.

## CARE AND MAINTENANCE

For normal care and maintenance of glass tile, wiping the surface with a damp sponge or cloth with water or a light vinegar solution is sufficient. If stronger cleaning is needed, a nonabrasive, neutral pH cleaner can be used. Glass tile may be damaged from impact with hard or heavy objects, which can lead to chipping or breakage causing sharp cutting edges that can lead to injuries. Always replace any damaged glass tiles immediately.