



## THE FINISHING TOUCH

### INSTALLATION, USE & CARE INSTRUCTIONS

*Thank you for your purchase, please enjoy your new Questech Tile. Surface markings and natural color variations are inherent qualities of Questech Cast Stone, Cast Metal and Natural Stone; adding to the beauty of all Questech products. **Please inspect your product prior to installation.***

#### QUESTECH TILE WARRANTY

The Questech limited warranty for Questech Cast Stone Tile, Questech Cast Metal Tile, and Questech Natural Stone Tile can be found at: [www.Questech.com/Warranty](http://www.Questech.com/Warranty)

#### Q-SEAL™ PERMANENT PROTECTION

Tile surfaces are protected by Q-Seal, a permanent sealer that is water and stain resistant, protects against abrasion, and features Ultra-Fresh® anti-microbial protection, which inhibits the growth of stain and odor-causing mold and mildew. Q-Seal is factory-applied and never needs re-sealing.

#### Q-SEAL WARRANTY

Q-Seal is guaranteed to be water and stain resistant for as long as you own your home. For complete warranty information please visit: [www.Questech.com/Warranty](http://www.Questech.com/Warranty)

#### APPLICATIONS

- WALL: All tiles are recommended for use as a wall covering in interior applications.
- FLOOR: Tiles designated as “floor” are recommended for use as a wall or floor covering.
- COUNTERTOPS: Tiles are NOT recommended for use as a surface for countertops.
- WET AREAS: The tiles can be installed in wet areas such as backsplashes, bathroom walls and shower enclosures (including steam showers), but are NOT recommended in or near swimming pools & hot tubs because pool chemicals may harm our protective sealer (Q-Seal™).
- EXTERIOR: Tiles are NOT recommended for exterior applications.
- RESIDENTIAL & COMMERCIAL: Tiles are recommended for residential and light commercial applications.

#### INSTALLATIONS INSTRUCTIONS

Follow generally accepted good practices for installation of ceramic tile. Take careful note of the following instructions specific to tiles *Cast in Questech*.

#### SETTING MATERIALS

Use the following setting materials for proper adhesion:

- Thin-Set: A liquid latex (polymer) fortified premium thin-set Portland cement mortar conforming to ANSI A118.4.
- Epoxy Adhesives: A water-cleanable epoxy mortar conforming to ANSI A118.3.
- Mastics & Adhesives: A Type 1 organic adhesive conforming to ANSI A136.1

(examples: latex mastic adhesive; acrylic latex adhesive).

#### SETTING METHODS

- Follow adhesive manufacturer’s instructions for preparation, mixing, application, and cleanup.
- Trowel a layer of adhesive on the back of each tile prior to placing on the combed adhesive bed to obtain 100% coverage.
- Do NOT beat in with the butt-end of the trowel.

#### GROUTING MATERIALS

Use the following grouting materials:

- Cement: A liquid latex (polymer) fortified premium Portland cement grout conforming to ANSI A118.6.
- Epoxy: A water-cleanable grouting epoxy conforming to ANSI A118.3.

#### GROUTING METHODS

- Follow grout manufacturer’s instructions for preparation, mixing, application, and cleanup.
- To help with cleanup, we recommend covering the tile surface with a high quality painter’s tape.
- Clean-up residue as soon as possible after grouting. Grout that is allowed to harden may be difficult to remove.
- Do NOT use scouring pads, steel wool, sandpaper, or other abrasive implements to remove grout haze, or damage to the tile surface may result.

## CUTTING INSTRUCTIONS AND SAFETY

Be sure to wear appropriate eye protection and an approved dust respirator when cutting, grinding or drilling tiles.

- The tiles are best cut or mitered with a diamond abrasive wet-saw.
- Tiles can be drilled with a high-speed drill or a hole saw.
- Tiles can also be cut or drilled with a rotary saw (ex. Roto Zip, Dremel).
- Do NOT use tile cutters designed to score and break tiles.

## CARE AND MAINTENANCE

- To clean, use an ordinary household cleaner. For best results, we recommend a liquid, non-abrasive cleaner.
- Liquid abrasive household cleaners should be used only after being tested in a small inconspicuous area to ensure that no damage will result.
- Do NOT clean with scouring pads, steel wool, or other abrasive implements or damage to the tile surface may result.
- Cleaners containing ammonia, bleach or other harsh chemicals should be wiped up shortly after application or damage to the tile surface may result.

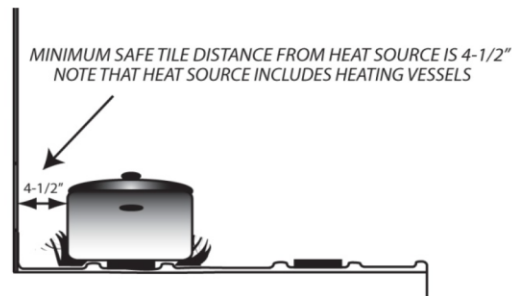
## HIGH-TEMPERATURE INSTALLATION

High-temperature installations are those where tiled surfaces will be subject to temperatures 130°F (55°C) or greater. Common applications include: Certain kitchen cook tops, fireplace surrounds and steam rooms. Follow the high temperature installation instructions to ensure proper adhesion.

Important Note: Tiles are not recommended in areas where the tiled surface temperature will exceed 212°F (100°C). For example, do not install tiles as a heat shield behind a wood (or gas) stove.

### Behind Cook-Tops without a Back-Guard (or back mount control panel)

To ensure proper bond, maintain a minimum distance of 4.5" inches between tiled surfaces and heat source. For the wall area directly behind and within 18 inches above the cooking surface, follow the high-temperature installation instructions.



### Fireplace Surrounds

To ensure proper bond, maintain a minimum clearance of 6" from the fireplace opening. When used above and projecting more than 1½" from a fireplace face, maintain a minimum clearance of 12" above the fireplace opening. Consult state and local building codes to determine if more clearance is required in your area. Follow the high-temperature installation instructions.

### Steam Rooms

To ensure proper bond, follow the high-temperature installation instructions.

## HIGH-TEMPERATURE INSTALLATION INSTRUCTIONS

- Set tile with a water-cleanable epoxy mortar conforming to ANSI A118.3.
- Grout tile with a water-cleanable grouting epoxy conforming to ANSI A118.3.
- Follow setting and grouting instructions found in the Installation Instructions section of this document.

# TECHNICAL PERFORMANCE SUMMARY

TEST	TEST METHOD	ANSI SPECIFICATION SUMMARY	QUESTECH RESULTS	PASS/FAIL
Bond Strength to Polymer Fortified Portland-Cement Mortar	ASTM C482	ANSI A137.1 50 PSI or greater	131 PSI	Pass
Breaking Strength	ASTM C648	ANSI A137.1 90 lbs. or greater	130-170 lbs. (¼" nominal thickness)	Pass
Facial Dimensions	ASTM C499	ANSI A137.1 Average facial dimension not to vary more than 4.0% from nominal Range of facial dimension not to exceed 0.6%	Average ≤ 4.0% Range/Max ≤ 0.6%	Pass
Coefficient of Friction (Floor Tile)	ASTM C1028-89 (withdrawn 2012) with no replacement ASTM standard	ANSI A137.1-2012 Section 9.61 for wet DCOF	<0.42	Approved for Dry & Level Interior Floors
Wedging	ASTM C502	ANSI A137.1 Not to exceed 0.6%	≤ 0.6%	Pass
Water Absorption	ASTM C373	ANSI A137.1 Not to exceed 20.0%	0.73%-1.21%	Pass
24 hr. Resistance to Household Chemical Substances	ASTM C650	No ANSI Specification	No effect. Ten (10) cleaning chemicals, two (2) base concentrations and two (2) acid concentrations	N/A
24 hr. Resistance to Staining	ASTM C1378	No ANSI Specification	No visual effect. Six (6) staining agents and two (2) cleaning procedures.	N/A
Surface Burning	ASTM E84-95b	No ANSI Specification	Class B	N/A
Surface Resistivity		No ANSI Specification	Questech is non-conductive	N/A

