

QuarryTile 1500™ DTQ Primer

TDS
TECHNICAL DATA SHEET

DTQ 1500™ by InduraFloor – THE SOLUTION FOR QUARRY TILE

QuarryTile 1500™ DTQ Primer is an impermeable, two-component, modified epoxy coating for commercial kitchens and other quarry tile surfaces. Our DTQ Primer contains ZERO VOC and is developed to be applied directly to new and existing substrates with only minimal preparation and without the need to grind and shotblast. This gives the client a fast return to service with a dust-free guarantee – two requirements for the restaurant- and commercial food and hospitality industry. By eliminating the need for tile maintenance, replacement and demolition and by creating one continuous surface without grout lines, which takes away the maintenance needs of bacteria harboring grout, DTQ enables facilities to get Board of Health Exemptions from floor inspections. Our NonSkid Grit will add texture and traction without reducing the cleaning abilities of the surface, giving commercial kitchen floors secure traction control without jeopardizing Board of Health status. DTQ seals up quarry tile with tensile adhesion strength exceeding 1,500 psi. Apply directly to the tile, even when the surface is oily or greasy, has broken tiles or missing grout. DTQ was developed for Army facilities and as such successfully applied throughout US. It is developed for extreme temperatures, to be applied to walk-in freezers without needing to thaw first. **QuarryTile 1500™ DTQ Primer is compliant with USDA and Health Department Regulations for Commercial Kitchens and Food Contact Surfaces.**

PRODUCT TECHNICAL DATA

Extraordinary Properties

- High Tensile Adhesion Strength exceeds 1,500 psi
- Designed to last. Guaranteed to stick and NOT delaminate
- Extensive inherent chemical resistance and extremely damage resistant
- Extremely tough with hydrolytic stability and low permeability
- Compliant with EU 10/2011 and FDA 21 CFR 175.300

Unique Advantages

- Zero VOC
- low odor
- Directly apply over existing tile with minimal preparation
- Cures in wet, in freezing or hot environments
- Tack-free and ready for topcoat in less than 2 hours
- Commercial return to service in less than 8 hours

Applications

- ◇ Directly over any existing quarry tile and grout lines, including oily surfaces
- ◇ As preventative treatment for new commercial kitchens to seal against moisture, vapor, leaks or drafts
- ◇ Developed for commercial kitchens, compliant with USDA and Health Department Regulations
- ◇ Add NonSkid Grit for Skid Resistance

Area Coverage

A 2-gallon kit (1 gallon part A and 1 gallon part B) will cover 600 square feet on a flat even surface at 3 mils and 350 square feet on a coarse, uneven surface at 10-12 mils.

Packaging

QuarryTile 1500™ DTQ Primer is available in the following units:

- ◇ 2-gallon kit (1-gallon part A and 1-gallon part B) in 3-gallon black pail – blue lid
- ◇ 6-gallon kit (3-gallon part A and 3-gallon part B) in two pails: one 3-gallon black pail with white lid (part A) and one 3-gallon black pail with black lid (part B). Both 3-gallon pails come with pour spout in the lid

Processing Characteristics

- Tack free dry time: 120 minutes.
- Subsequent coat can be applied in 90 minutes.
- Recoat time: 24 hours. After 24 hours, you must perform the following procedure prior to recoating:
Light acetone wetting. Acetone wetting eliminates dust and "opens" the QuarryTile up to allow for maximum adhesion.
- QuarryTile 1500™ DTQ Primer's primary purpose is superior adhesion. Proper application will result in adhesion from 1,500 psi to at least 1,500 psi.
- Do not dilute.

PHYSICAL PROPERTIES	TEST METHOD	RESULT	
		TYPICAL PRODUCT	QuarryTile 1500™
TENSILE ADHESION STRENGTH	ASTM D4541	>410 psi	>1,500 psi
VAPOR PERMEANCE	ASTM E96	0.052 gr/h/ft ²	0.011 gr/h/ft ²
TENSILE ELONGATION	ASTM D638	2,500 psi	3,200 psi
WATER ABSORPTION	ASTM D570	<0.1%	<0.09%
COMPRESSION STRENGTH	ASTM D695	>10,000 psi	>18,000 psi
FLEXIBILITY 1/4" CYLINDRICAL MANDREL	ASTM D522	PASS	PASS
IMPACT RESISTANCE	ASTM D2794	>160 inch/lbs.	>320 inch/lbs.
SHORE D HARDNESS	ASTM D2240	80	89

WORKING PROPERTIES	RESULT	
	TYPICAL PRODUCT	QuarryTile 1500™
MIX RATIO	1:2	1:1
WORKING TIME (POT LIFE)	20 - 30 min	50 - 60 min
RE-COAT TIME (MIN)	12 hrs.	50 min.
RE-COAT TIME (MAX)	72 hrs.	24 hrs.
FULL CURE	7 days	3 days

Adhesion Performance and Penetration during Hydrostatic Pressure Testing

Loss of adhesion at 50 lbs. of applied hydrostatic pressure: 0 (zero)
Moisture wicking at 50psi

Working Temperature

Optimal application temperatures generally are between 60°F and 80°F (15.5°C and 27°C). This is for both ambient and surface temperatures. Outside this temperature range dry times will become exponentially longer. DTQ has been formulated to be applied outside this range, even below 41 °F. For the specific application methods required for extreme temperatures please consult your InduraFloor specialist.

QuarryTile 1100™ DTQ Primer

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Product Technical Data Cont'd

Shelf Life and Storage

2 years unopened under good storage conditions. Store locked up and out of reach of children. Do not store in direct sunlight. Do not expose to freezing temperatures. Store in upright position. Store in accordance with local regulations. Store in original containers in a dry, cool and well-ventilated area between 60°F and 80°F. Containers that have been opened must be carefully resealed and kept upright.

APPLICATION INSTRUCTIONS

Our product is unique and **MUST** be handled accordingly. Failure to follow the application instructions will void the warranty. Please consult InduraFloor directly for additional information or to discuss specific application questions.

1. **Clean surface.** Dry sweep and remove loose debris. Clean water wipe and wash down if required. Dry as needed. Use of leaf blower or floor blower fan is recommended. Follow with acetone wetting. Mist acetone on the substrate with solvent resistant sprayer. Acetone treatment is needed to maximize the performance of the product's adhesive capabilities, to ensure maximum adhesion and to guarantee it does not delaminate. Note: Acetone removes oils, contaminants and dust debris from both the surface as well as from within the pores of the substrate.
2. **Mix.** If adding color, add color to Part A first. Thoroughly mix each component individually FIRST, then blend Part A with Part B on a 1:1 basis. Gently blend using a low RPM machine mixer with a paint mixing blade, for about 30 seconds, until product is evenly colored. When using 9" rollers, a 5-gallon pail is compatible. Place the container on a pail dolly for mobility. *Paint Tray system or 18" roller can be used.*
3. **Induction Period.** After mixing, let the mixture rest for 5 minutes. This period is called induction time. Failure to adhere to induction time period will void the warranty. Note: colder temperatures require a longer induction time. Contact InduraFloor for application in walk-in freezers.
4. **Application.** Apply QuarryTile 1500™ DTQ Primer by dipping the roller into the bucket and removing excess material from the roller and then applying the primer onto the substrate. **MUST** use ¾" short nap roller (a "Wooster Brush R207-* Mohair Blend Roller Cover ¾" NAP from Home Depot or equivalent). **WARNING** - Do not pour the mixture out onto the substrate. Do not use a squeegee. Failure to adhere to these application instructions voids the warranty. Use the roller to apply at a film thickness of 4 to 6 mils (when applying to a flat and even surface). When rolled out, QuarryTile 1500™ DTQ Primer will have a translucent appearance.
5. **Dry Time.** Allow the primer to become tack free before applying subsequent coat. The approximate tack-free time can be as little as 40 minutes if backrolled extensively, with an average of 90 minutes to 120 minutes but can take as long as 4-6 hours if applied heavier than 6 mils. at 75°F (24°C) and 50% relative humidity.
6. **Clean up.** Use acetone for all tools and surfaces.

Disclaimer

This information is presented herein was believed by InduraFloor to be accurate at the time of preparation, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by InduraFloor are subject to InduraFloor's terms and conditions. InduraFloor makes no warranty, express or implied, concerning the product or merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by InduraFloor except that the product shall conform to InduraFloor's specifications.