

Specifications, Test Results and Warranty Information

TECHNICAL SUPPORT

Architectural Specification

See the 3-PART SPECIFICATIONS portion of this Profile for our ready to edit long form architectural specification.

Short Form Guide Specification

A typical specification to assure the use of Metropolitan Ceramics' unglazed tile on your next job should be written as follows:

Ceramic tile shall be (SOMERSET™, QUARRYBASICS®, METRO TREAD®, or ENVIROQUARRY) as manufactured by Metropolitan Ceramics, Canton, Ohio 44711.

The body composition shall be of the finest shales and clays producing a uniformly dense body with slip-resisting texture.

Color shall be:

Size shall be:

Patterns: As per drawing.

Grout: Compatible color, as approved by architect.

Test results shall be available upon request.

For best installation results, we recommend that the following be included in the specifications:

Nominal 3/8" joint widths.

Mix tile from several cartons for best shading during installation.

Use beating block to embed tile and align surfaces and edges.

Clean colored grout with cheesecloth or toweling for uniform grout color and most uniform grout level and texture.

Grout joints may be damaged by some acid cleaners. Test a small area first. Wet floor with clean water before applying any acid cleaner. Do not use any product containing hydrofluoric acid since it will attack both grout and tile.



Test Results and Characteristics

The following are test results for Metropolitan unglazed ceramic tile products. For results specific to glazed products, please phone Metropolitan at 1-800-325-3945.

Metropolitan Ceramics unglazed quarry tile meets ADA guidelines as manufactured.

Specification	Test	Standard	Result
Abrasion Resistance	ASTM C501	Index of 35 or better	Metropolitan tests at >80 or better.
Absorption 5-hour boil	ASTM C373	5%	Metropolitan tests at 3% maximum and qualifies as vitreous.
Breaking Strength	ASTM C648	Min. 250 lbs.	Metropolitan tests at 400 lbs. or better.
Compressive Strength	ASTM C67	No industry standard	Metropolitan tests at 10,000 P.S.I. or better.
Facial Size Variation	ASTM C499	Average facial dimension of each tile not to exceed 4% from nominal dimension(s)	Metropolitan meets the standard.
Freeze/ Thaw	ASTM C67	No industry standard	Metropolitan internal test is 15 cycles.
	Metropolitan internal test	Metropolitan internal standard is 3,000 cycles.	
Shear Bond Strength	ASTM C482	50 P.S.I. or better	Metropolitan exceeds the standard.

Static Coefficient of Friction	ASTM C1028	No industry standard	At time of manufacture, all Metropolitan colors meet or exceed measure of 0.70 dry and 0.60 wet. Metropolitan X-colors and METROTREAD (enhanced slip resisting products) meet or exceed 0.90 dry and 0.70 wet.
Thickness	ASTM C499	Max. range of .050"	Metropolitan meets the standard.
Warpage	ASTM C485	Max. 1.5% along any edge. 1.0% on either diagonal.	Metropolitan meets the standard.
Wedging	ASTM C502	Max.1.0%	Metropolitan meets the standard.

CODES and CERTIFICATIONS

Ironrock Limited Warranty

Ironrock Capital, Inc. ("Ironrock") warrants, as limited below, that our products will meet the testing standards and specifications set forth in our current product literature.

In the event of a defect or failure to conform with this written warranty, Ironrock will remedy shipment shortages and replace defective tile F.O.B. plant if timely notice of the defect is received by Ironrock.

Scope of Warranty

Our limited warranty covers shipment shortages and tile which has non-latent or latent defects in material or workmanship due solely to improper manufacture and which fails to meet our testing standards and specifications set forth in our current product literature.

Non-latent defects are those which are capable of discovery by inspection prior to installation. Non-latent defects include but are not limited to facial or structural defects, discrepancies in dimensional characteristics, and failure of the tile to meet the testing standards and specifications set forth in our current product literature. Because our product is made from natural materials which may vary from individual samples or prior production runs, minor variations in color and surface characteristics shall not be considered a defect. For this warranty to be effective, you must notify the dealer from whom you bought the tile of any non-latent defects prior to installation of the tile.

Latent defects are those defects of tile not capable of discovery until after the tile is installed.

If You Wish to Make a Claim under This Limited Warranty:

To preserve the benefits of this limited warranty, you must promptly notify the dealer or distributor from whom you bought the tile in writing as follows:

For shipment shortages, you must give notice within 30 days of the date the tile was delivered to you. For perceived non-latent defects, you must give notice prior to installation, but in no event later than one year after the tile was shipped by Ironrock

For perceived latent defects, you must give notice within one year after installation, but in no event later than eighteen months after the tile was shipped by Ironrock. You must permit Ironrock to inspect and test the tile at its own expense to determine whether the tile is defective.

Limitations and Exclusions

THESE LIMITED WARRANTIES ARE THE SOLE AND EXCLUSIVE REMEDY AVAILABLE.

This warranty does not cover defects resulting from accidents, alterations, failure to follow recommended installation instructions set forth in the Tile Council of America Installation Handbook or those installation standards customarily used in your area, acts of God or any other cause or damage not resulting from a defect in manufacture.

Because specific installation details, structural design and environmental conditions are beyond Ironrock's control, we are not responsible for the performance of our products after they are installed, except in the case of latent defects.

WE ARE NOT LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF OUR PRODUCTS OR OTHER DAMAGES WITH RESPECT TO DELAY, INCONVENIENCE, LOSS OR DAMAGE TO PERSON OR PROPERTY, LOSS OF REVENUES OR PROFIT OR COSTS OF REMOVAL, INSTALLATION OR REINSTALLATION. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.) EXCEPT AS PROVIDED HEREIN, WE MAKE NO EXPRESS WARRANTIES. THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES AND SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY A WRITTEN INSTRUMENT SIGNED BY AN AUTHORIZED REPRESENTATIVE OF IRONROCK, INC. TO THE EXTENT PERMITTED BY LAW, WE DISCLAIM ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE TILE COVERED BY THIS WARRANTY IS A "CONSUMER GOOD," ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A

PARTICULAR PURPOSE WILL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.) This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

OPERATION and MAINTENANCE

Initial Cleaning and Seasoning

The following are cleaning instructions for Metropolitan Ceramics unglazed products.

1. It is the installer's responsibility to thoroughly clean and remove all grout or mortar residue from the new tile surface.
2. Because grout joints are porous and highly susceptible to staining, you may wish to protect them with an application of a penetrating sealer, such as Aqua Mix Penetrating Sealer. If the floor will be subject to frequent staining by fat, oil or grease spills, you may wish to apply the penetrating sealer to the tile as well as the grout joints to enhance the tile's soil resisting characteristics. Make sure to apply the penetrating sealer before seasoning the floor. Follow the manufacturer's directions carefully. Wipe up all excess sealer immediately to prevent surface discoloration. NEVER USE A COATING (SURFACE TYPE) SEALER because they do not adhere well to the tight dieskin surface.
3. Season the floor by mopping thoroughly with a double strength application of Hillyard's Super Shine-All[®], Murphy's Oil Soap[®] or other neutral liquid cleaner.

Recommended Maintenance

1. Sweep, vacuum, or damp mop as necessary to remove dust, dirt and grit.
2. Remove heavy spills or spots immediately with a heavy detergent and stiff brush or a non-metallic scouring pad. Do not use any cleaner containing hydrofluoric acid which will attack both grout and tile. Routinely mop the surface with a neutral liquid cleaner, such as Hillyard's Super Shine-All. Use a simple two bucket method. The first bucket should contain the neutral cleaner diluted per the manufacturer's recommendations in hot water. After mopping or scrubbing a small area of floor not to exceed 2-3 square feet, the mop should be rinsed in the second bucket containing clean water. The rinse water in the second bucket should be changed regularly.
3. Mop up any dirty cleaning solution and allow floor to dry thoroughly. Under normal conditions, rinsing is not necessary. However, if the surface is extremely dirty, it should be allowed to dry and mopped again.
4. Over time a natural patina will develop. It can be enhanced with a soft buffing.
5. For applications in restaurants/cafeteria service and dining areas, at least once per week - and more often if necessary - the floor should be scrubbed with a solution of Hillyard's Assurance all-purpose cleaner or a comparable product and a scrub brush. Contact us for complete instructions on maintaining a Metropolitan floor in food service areas.

If you have any questions about maintaining your Metropolitan floor, call us at 330/484-4887.

Metropolitan Ceramics by Ironrock

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