



ICO-GUARD QUARTZ TROWELLED™

Product Data Sheet

Product Description

ICO-Guard Quartz Trowelled™ flooring is a three part, trowel-applied epoxy floor normally applied 1/4" thick. It is an odorless material that combines the high chemical resistance and moderate resilience of our **ICO Guard** resin system with the beauty of decorative color quartz aggregate. It is applied in a single step application, although a clear top coat of **ICO Sealer**, our water white epoxy sealer, can be applied to provide a more uniform, higher gloss finish. **ICO Guard Quartz Trowelled** floors have excellent damp, as well as dry adhesion to concrete, tile and brick, wood and metal surfaces. For applications between 32°F and 50°F, our fast cure version, **ICO Guard Quartz Trowelled FC** can be used. For coving up walls, we have our **ICO Guard Quartz Cove Mix** materials.

Product Application

ICO-Guard Quartz Trowelled™ floors are especially designed for institutional, commercial and industrial kitchens where the combination of high wear, thermal cycling and aggressive chemical cleaners requires a high performance, yet attractive floor. Because of such properties, **ICO Guard Quartz Trowelled** floors provide such users an economical alternative to quarry tile. Such floors are also used in pilot food plants, food commissaries, and auto service bays where the appearance of the floors is important, yet traffic and use conditions are too severe for conventional 1/16" - 1/8" broadcast floors.

Chemical Resistance

The **ICO-Guard Quartz Trowelled™** floor will have virtually identical chemical resistance to our **ICO Guard** floor line (see **Chemical Resistant Chart** under "**ICO Guard**").

Physical Properties

Tensile Strength (ASTM C-307) : 2030 psi	Flammability (D-635) : Self Extinguishing
Tensile Elongation (C-307) : 3%	Vapor Transmission Rate (E-96) : .03 perms
Compression Strength (C-579) : 5170 psi	Water Absorption (D-570) : 0.2% (24 hrs.)
Hardness, Shore D (D-2240) : 80	Gardner Impact : > 160 inch pounds
Bond Strength to Quarry Tile : >1000 psi	

Physical Characteristics (Unless otherwise noted, all figures are for regular cure, "RC").

Density, lbs./gal	Viscosity @ 77°F,cps	Mixing Ratios	By Volume	By Weight
Pt. A : 9.5	Pt. A : 700	Pt. A : Pt. B	2 : 1	2.2 : 1
Pt. B : 8.6	Pt. B : 300	Aggregate : Liquid	3 : 1	4 : 1
A&B Mixed : 9.2	A&B Mixed : 630			

Curing Times @

	32 °F	50°F	75°F	90°F
ICO-Guard Quartz Trowelled, RC, Pot Life	-	60 min.	50 min.	25 min.
ICO-Guard Quartz Trowelled, RC, Hard, Foot Traffic	-	24 hrs.	15 hrs.	5 hrs.
ICO-Guard Quartz Trowelled, FC, Pot Life	50 min	45 min.	30 min.	10 min.
ICO-Guard Quartz Trowelled, FC, Hard, Foot Traffic	28 hrs.	14 hrs.	3 hrs.	2½ hrs.

Maximum Hardness achieved after 7 days @77°F.

Packaging and Coverage Rates

Basic Kit	: 27 SF @ 1/4"
Bulk Pack	: 270 SF @ 1/4"
Drum Kit	: 2700 SF @ 1/4"

Color Availability

It is available in nine pre-mixed color combinations, as well as twelve solid colors. Custom color combinations are available at a slight extra charge.

Shelf Life 1 year at 77°F in unopened containers

Installation

Please refer to our Application Specs for detailed instructions. Particular care must be taken to follow these instructions precisely to assure proper installation.

1. New concrete should normally be allowed to cure for a minimum of 28 days. It should always be checked with a rubber mat test and calcium chloride to detect the presence of moisture. Contact manufacturer if questions.
2. All surfaces should be shot blasted or otherwise mechanically prepped to provide a clean, sound substrate to which to bond. Remove any oils, greases, etc., first by suitable degreasers.
3. No priming is necessary on concrete of average porosity. However, on new concrete, wood, or concrete of excess porosity, use of **ICO Primer LV** applied at 200-250 SF/gallon is recommended to minimize outgassing. Allow to dry tack free.
4. Mix the ingredients in the prescribed ratios, using a low speed (< 750 rpm) paddle-type mixer. Mix Parts A and B for 30-60 seconds, then add angular quartz filler and mix for another 30-60 seconds until uniform in color and consisting.
5. The prepared mix is normally applied to the prescribed thickness by a screed box, gauge rake, or screed bar.
6. Allow the rough mix to set a few minutes before lightly finishing with a hand trowel or power trowel.
7. After trowelling, the surface should be back-rolled with a fine nap roller dipped in isopropyl alcohol to eliminate trowel marks. Aggregate can be broadcast in for achieving an anti-slip surface.
8. To provide a more uniform, glass-like finish, apply a top coat of **ICO Sealer** or **ICO Ure Guard 80** at about 100 -160 SF/gallon.

Failure to follow the above instructions, unless expressly authorized by an Milamar Technical Service Representative, will void our material warranty.

Precautions

1. If sealed, minimum application temperature is 50°F for **ICO Sealer FC** and 40°F for **ICO Ure Guard 80**

Product Specification

The specified area shall receive an application of **ICO-Guard Quartz Trowelled™** as manufactured by **Milamar Coatings LLC. of Oklahoma City, Oklahoma**. The material shall be installed by precisely following the manufacturer's published recommendations pertaining to mixing, application, and preparation. It shall be a resin-rich mixture, not exceeding 3:1 (by volume) of aggregate: liquid. The compressive strength shall not exceed 5200 psi when tested in accordance with ASTM C-579, and should have a minimum tensile elongation of 3%. The system shall be unaffected by oil, grease, gasoline, 50% sodium hydroxide, 50% sulfuric acid, and 10% nitric acid for 7 day immersion and should withstand constant wash-downs up to 212°F.

The data statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data. Statements and recommendations will serve as reliable guidelines. However, this product is subject to numerable uses under varying conditions over which we have no control, and accordingly we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

LIMITED WARRANTY

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, either replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.



311 NW 122nd St, #100 Oklahoma City, OK 73114
800.459.7659
www.milamar.com

