

IC Moisture Guard

Description:

IC Moisture Guard is a 100% solids, low viscosity primer designed to penetrate damp concrete and to control concrete surfaces that exhibit high moisture vapor emission. It is recommended for use over interior concrete surfaces prior to the installation of Terroxy Terrazzo and Resinous Flooring Systems or other types of non-permeable resinous flooring systems.

Product Benefits:

- Penetrates and seals high moisture emitting concrete allowing installation of resinous non-permeable flooring systems on and below grade.
- Tolerates Moisture Vapor Emissions from 80% to 95% relative humidity as measured by ASTM F 2170. If readings exceed 95% please contact T&M technical support for assistance.
- Has a vapor permeance of 0.060 grains/h/ft²/in Hg (perm) which meets the requirement of ASTM F-3010-18, that a membrane-forming moisture mitigation system have a vapor permeance no greater than 0.10 perm.
- Low formulation viscosity for deep penetration of concrete substrate and easy application.
- All-in-one zero VOC primer coating and epoxy moisture mitigation system
- Can be applied to 7 day old concrete*

Coverage:

A coverage of 100ft² (2.45m²) per blended gallon (liter) is required in order to ensure a vapor permeance of 0.06 perms. Coverage can vary depending on surface profile

Substrate Preparation:

IC Moisture Guard is recommended for use over interior concrete substrates. *The concrete slab shall have been cured for a minimum of 7 days at 74°F (23°C), be level to within ¼ inch in 10 feet (6mm in 3m) and have light steel trowel finished surface. No curing agents should be used. Floor surface should be prepared by shotblasting or mechanically abrading the concrete surface to achieve an ICRI profile of 3-5. Any standing water must be removed by vacuum and the surface allowed to dry. If concrete slab is on or below grade there should be an effective moisture barrier below the slab.

Installation Instructions

Mixing / Application:

Substrate and all materials must be maintained at 50°-90°F (10°-32°C) for 24 hours before, during and after installation. Mix 2 parts IC Moisture Guard A by volume to 1 part IC Moisture Guard B in clean container and mix thoroughly for 3 minutes using a low speed mixer to avoid whipping air into the product. Smaller batches can be made provided materials are accurately measured by volume to assure a 2 parts A to 1 part B ratio.

IC Moisture Guard should be applied by trowel or squeegee then back rolled. Do not exceed 100ft²/gallon (2.45m²/L). Avoid leaving any puddles of product. Subsequent coatings should be applied within 24 hours of application of IC Moisture Guard. After 24 hours, surface must be lightly sanded, cleaned (preferably solvent wiped), and dried. The surface should always be clean and free of dust & debris prior to application of additional coatings. In addition, aggregates can be broadcast into a wet coat of IC Moisture Guard for enhanced bond profile or broadcast proposes.

Note: Low temperatures, very high humidity, and/or nearby fuel burning sources may cause the surface of IC Moisture Guard to blush/haze. This blush should be removed via lightly sanding the surface and cleaning prior to application of subsequent coatings. Unresolved blush may result in poor bond. It is recommend to broadcast well graded aggregate into the wet IC Moisture Guard if the potential for blushing exists.

Two applications of IC Moisture Guard may be required to adequately seal and fill surface imperfections and protect against off gassing. This can be accomplished by applying a second coat in opposite direction to the first 20-30 minutes apart.

Limitation:

Do not use in temperatures below 50°F (10°C) and substrate surface temperature is 5°F (2.8°C) above the dew point. Do not use where hydrostatic pressure conditions exist. If relative humidity readings are greater than 95% contact Terrazzo & Marble Supply Technical Department for additional recommendations.

Technical Data:

In Use Performance	Typical Results
Percent Solids	100%
ASTM F-3010-18 Subsection 5.2	Passes
Cure Time	6-8 hours, 12 hours to light traffic (Varies with conditions)
Bond Strength (ASTM C1583-04 / ACI COMM Bulletin 59-43 (pages 1139-1141))	300 psi (2.07 MPa) minimum (100% concrete failure)
Hardness (ASTM D-2240, Shore D)	70
Flammability	Self-extinguishing over concrete
Mix Ratio By Volume (A:B)	2:1
Color	Straw amber, Gardner 2 - 3
VOC/Liter if Materials	0 grams (calculated)
Storage	Store in cool, dry location. Do not expose to nor store in direct sunlight. Keep at temperatures of 50-90°F (10-32°C)
Shelf Life	Maximum of 1 year from date of manufacture in unopened package.

Packaging

Two part system components as follows:

Part A 2 U.S. Gallon (7.57 L) plastic containers

Part B 1 U.S. Gallon (3.79 L) plastic containers

Technical Service:

Terrazzo & Marble Supply Companies, distributor of Terroxy Resin Systems, provides services and consultations on material selection, specifications and troubleshooting concerning proper thin-set epoxy terrazzo installation. Contact our **Terrazzo Sales Desk at 800.7.MARBLE** or **T&M Technical Department at 708.385.6633** for questions or assistance.

Precautions:

Refer to cautionary information printed on the product container. For medical emergencies, contact Chemtrec, the Chemical Emergency Transportation Center, at 800.424.9300.

Warranty:

Terrazzo & Marble Supply Companies (T&M) warrants for a period of one (1) year that Terroxy IC Moisture Guard will be free of manufacturing defects and will conform to published specification when handled, stored, mixed and applied in accordance with recommendations of T&M. If Terroxy IC Moisture Guard fails to meet this warranty; the liability of T&M will be limited to replacement of any non-conforming Terroxy IC Moisture Guard only if notice of such non-conformity is given to T&M within one (1) year of delivery of materials. T&M may, according to its discretion, refund the price received by T&M in lieu of replacing the Terroxy IC Moisture Guard. No customer, distributor or representative of T&M is authorized to change or modify the published specification of this warranty in any way. No one is authorized to make oral warranties on behalf of T&M. In order to obtain replacement or refund, the customer must provide written notice containing full details of the non-conformity. T&M reserves the right to inspect the non-conforming Terroxy IC Moisture Guard prior to replacement. Except for the expressed warranty stated above, there is no other warranties, expressed or implied, including without limitation, implied warranty of merchantability or fitness for purpose. T&M's obligation shall not extend beyond the obligations expressly undertaken above and T&M shall have no liability or responsibility to the purchaser or any third party for any loss, cost, expense, damage or liability, whether direct or indirect, or for incidental or consequential damages.

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