



The FRP Retrofit Experts

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Product Data Sheet QuakeBond™ 111 DTM

DESCRIPTION

QuakeBond™ 111 is a direct-to-metal (DTM) corrosion inhibitor that forms a durable bond to a wide range of ferrous substrates and prevents deterioration due to most naturally occurring environmental threats and extends the life of the assets by protecting the underlying metal from rust and corrosion. QuakeBond 111™ DTM is a dual-component variable viscosity, extremely low volatile organic compound, surface applied corrosion inhibitor. QuakeBond 111™ DTM has an advantage over other coatings by providing asset protection against many freeze/thaw, chemical, and abrasion threats.

USE

- Protect and restore ferrous material from deterioration or further loss of structure through exposure to many naturally occurring elements.
- As a functional primer for other coating systems.
- For Concrete encased metal, Corrosion Under Insulation (CUI), Rebar, Steel Structures, and Pipe exteriors.
- As a method to bond metal substrates to concrete.

ADVANTAGES

- Application Flexibility
- Lowers preventative maintenance.
- Resistance to multiple environmental threats, including: Abrasion, Freeze/Thaw, Thermal Shock, Chemical.
- Extreme climate resistance (-80 to +500 °F).
- Ease of Clean-up (water is the only medium).
- Odorless and nontoxic.
- Bonds with concrete.
- Easy to use (brush, spray, roll).
- Cost Effective.

COVERAGE

Applied at a minimum thickness of 8-10 mil. More thickness can be added based on the need.

PACKAGING

Each of the components is supplied in 5-gallon (19L) containers. Ships DOT non-regulated.

MIXING

Proportion 1 part component "A" QuakeBond 111 powder, to 1 part component "B" QuakeBond Emulsion, by volume into a clean container. QuakeBond Emulsion (Part B) must be added into a clean container. QuakeBond powder (Part A) should then be slowly added in the appropriate ratio so the fines of the powder are not dispersed. If the applicator spraying QuakeBond 111™ DTM, the part A powder should be sieved before application. This removes any particulates which might both prohibit a consistent finish and remove any particulates which may jam the applicator's spray gun. The size of the sieve should be proportional with the size of the applicator spray gun.

SHELF LIFE

One year in original, unopened and properly stored containers.

STORAGE CONDITIONS

Store at 35°-100° F (2°-38° C). Avoid moisture contamination. Do not store in aluminum, fiberglass, copper, brass, zinc, or galvanized containers.

CERTIFICATE OF COMPLIANCE

- Material Safety Data Sheet (MSDS) will be supplied upon request and is included with each shipment.

SURFACE PREPARATION

Surface must be clean and sound. It may be dry or damp but free from standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles and other bond inhibiting materials from the surface. Other materials such as petro chemicals which could interfere with this process must be removed. Typical methodology may include sand blasting, degreasing, scraping, and water blasting.

APPLICATION

QuakeBond 111™ DTM can be applied using a sprayer, brush, trowel, or roller depending upon the application tools available. Using any application method, to avoid mud cracking, do not use too much material on a single coating. During the spray application, there should be approximately 6 to 12 inches between the tip of the spray gun and the substrate. Adjust the spray gun valve so the gun is spraying a 6 inch fan, using minimal pressure. A 50% overspray technique is recommended. For optimal results, a dual coat program should be applied. First spray one coat horizontally across a section, and then complete the process next with a vertical spray direction. Do not spray at higher pressures than recommended above as the mixture might dry before landing on the substrate. It is acceptable practice to brush hard to reach areas after spraying. Continue to agitate the QuakeBond™ 111 DTM solution during application. Let each coat dry to touch before applying a second layer. Ensure proper coverage on edges, as during normal hydrolysis induced cure, the material may become thinner than expected. Brush edges or corners before spraying the surface to ensure enough material is in contact with the substrate.

LIMITATIONS

Minimum application temperature of the epoxy is 40° F (4°C). DO NOT THIN with solvents.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse. Consult MSDS for detailed information.

CLEANUP

Collect with absorbent material, flush with water. Dispose of in accordance with local disposal regulations. Uncured materials can be removed with approved solvent. Cured materials can only be removed mechanically.

EMULSION PROPERTIES

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Color	Part A is gray paste Part B is cream-white
Viscosity (cps)	75
NVW (%)	40
pH	7.5
MFFT	32 °F (0 °C)
Emulsion Solvent	4.67 oz./gal (35 g/L)
Quake Bond 111™ DTM Solvent	2.27 oz./gal (17 g/L)
Elongation at Break (%)	300
Koenig Hardness (s)	80

**KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. NOT FOR INTERNAL CONSUMPTION.
KEEP CONTAINER CLOSED TIGHTLY. CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION.**

QuakeWrap, Inc. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. QUAKEWRAP, INC. SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.