



Application Specification

TERRAZZO M UNDERLAYMENT

Purpose and Scope

To outline instructions for application of Dex-O-Tex Terrazzo M Underlayment, a resin base interior deck covering underlayment designed for use under resin terrazzo or polymeric deck covering materials. This material is manufactured to meet the requirements of MIL-PRF-3135, Type I, Class 2 and Type II, Class 2.

Thickness..... Minimum 1/8” (3.18 mm)

Approximate Quantity of Materials Required

To Cover ONE HUNDRED SQ. FT (9.3 sq. Meters)

	<u>Thickness</u>
	1/4 inch (6.35 mm)
Terrazzo M Bondcoat (A & B Components)33 unit
Terrazzo M Underlayment Kit (C & D Comp. and Aggregate) packed in 6-gallon container	3.70 kits

For Small Areas:

Terrazzo M Bondcoat, (Components A & B), is available in 1/2 or 1/4 units.

Terrazzo M Underlayment, (Components C, D and Aggregate), is available in 1/2 unit kit, packaged in 3.5-gallon container.

Equipment Required

- Dex-O-Tex Mixing Blade mounted in slow speed (275 RPM)
- 3/4” (19 mm) drill
- “Jiffy” Blade, (small size)
- Rubber-Edged Plasterer’s Squeegees, one 12” (30 cm) and one 6” (15 cm)
- Steel Trowel, (3” x 12”), (8 cm x 30 cm)
- Plasterer’s Steel Trowel, (4” x 16”), (10 cm x 40 cm)
- Approved solvent for cleaning tools
- Protective gloves and handcream

Surface Preparation

Metal: Deck surfaces should be sandblasted or ground, (or needle-gunned where steel is pitted), to remove all mill scale, rust, paint, etc., to grey steel or as specified. Surface should be dry and free of dust, oil or grease. Terrazzo M Underlayment is installed using Terrazzo M Bondcoat.

Decks which have been cleaned and primed with Navy Formula 150 Primer, MIL-DTL-24441 (SH), should receive a coat of Terrazzo M Bondcoat before application of Terrazzo M Underlayment.

Decks which have been cleaned, whether primed with Navy Formula 150 Primer or not, (and it is not planned to immediately proceed with the Terrazzo M Underlayment application), may be entirely Bondcoated—see Step One below—and sprinkled with Terrazzo M Underlayment Aggregate if more than twelve (12) hours is to elapse before application of Terrazzo M Underlayment mix, to protect the deck from oxidation. In such cases, it is not necessary to re-apply Terrazzo M Bondcoat.

(Consult Crossfield Products Corp. when wood or other surfaces are involved.)

Material Temperature:

The temperature of the materials must be between 65°F to 80°F (18° C to 27°C) for best mixing and application properties.

Application Temperature:

Deck surface and room temperature of 65°F to 75°F (18°C to 24°C) must be maintained for at least 24 hours for proper curing after installation.

Application Procedure:

Terrazzo M Bondcoat, (A & B Components packed in cartons) Terrazzo M Underlayment, (C & D Components and Aggregate packed in 6-gallon pails or 45-lb. Bags of Aggregate with C & D Components packed in cartons)



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STEP ONE – Terrazzo M Bondcoat

The Bondcoat A & B Components are supplied as a unit in two separate containers.

After the surface to be covered has been properly prepared, pour the contents of the can containing Terrazzo M Bondcoat Component B into the can containing Component A. Blend thoroughly with the “Jiffy” blade or other mechanical means for two (2) minutes. Terrazzo M Bondcoat has a pot life of approximately 1/2 hours at an ambient temperature of 70°F to 75°F, (21°C to 24°C). The working time of the material will be lengthened if it is either poured out of the mixing pail onto the surface and then worked from there, or else poured into a wide receptacle, (such as a paint roller tray), and then worked from that.

A unit of Terrazzo M Bondcoat will cover approximately 300 sq. ft. (27.87 m²) on steel decking when applied with squeegee.

Terrazzo M Bondcoat may be applied in any one of three techniques, as follows:

- A. Apply to small area in a very thin coat with brush, trowel, or squeegee immediately prior to application of Terrazzo M Underlayment, **LEAVING NO PUDDLES, or**
- B. Apply as above to large area and subsequently install Terrazzo M Underlayment over wet Terrazzo M Bondcoat with mechanics working on kneeboard, **or**
- C. Apply to large area and sprinkle a small amount of dry Terrazzo M Underlay Aggregate on the wet Bondcoat surface. Apply Terrazzo M Underlayment the next day. The sand will produce a “tooth” which will keep the Terrazzo M Underlayment from sliding on the dried Bondcoat surface.

STEP TWO – Terrazzo M Underlayment

The C Component (1-gallon can) and the D Component (1-quart can) are normally packaged in a 6-gallon pail along with the measured quantity of aggregate to provide proper proportions.

Pour the D Component into the can containing the C Component—(be sure to scrape out all the D Component). Blend thoroughly for two to three (2-3) minutes with the “Jiffy” blade. Pour the thoroughly blended resins into a clean 6-gallon (or larger) container. Add the aggregate portion to the resin mix in the 6-gallon container and with the Dex-O-Tex mixing blade mounted in a slow-speed 3/4” (19 mm) drill blend for two to three (2-3) minutes. Box the mixed material into a clean pail and re-blend to be sure binder liquid is uniformly coating the aggregate particles.

Terrazzo M Underlayment mix will give a workable composition with a pot life of 45-60 minutes at an ambient temperature of 70°F to 75°F (21°C to 24°C), capable of being troweled to an even dense surface in a minimum thickness of 1/8” (3.18 mm). It can be installed in greater thicknesses and is recommended to develop drainage slopes and heavy fairing.

Place the necessary amount of Terrazzo M Underlayment blend in several small piles onto the area previously coated with Terrazzo M Bondcoat and spread out with trowel or float to the thickness and plane desired. Following this, compact the material into a dense surface with a 4” x 16” (10 cm x 40 cm) rectangular trowel.

A 6-gallon unit of Terrazzo M Underlayment mix should cover approximately 27 sq. ft. (2.51 m²) at 1/4” (6.35 mm) thickness. Working time is approximately one hour at room temperature of 70°F to 75°F, (21°C to 24°C).

Overnight cure is desirable before application of Terrazzo M deck covering or any other floor or deck finish.



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Cautions

1. For proper workability it is important the Dex-O-Tex materials be stored and mixed at a temperature of 65°F-80°F.
2. The substrate temperature should be between 65°F-80°F. A warm substrate will decrease the pot life and make the materials sticky. A cooler substrate will retard the cure and may cause a blush of the polymeric resins. Deck surface and room temperature of 65°F or slightly higher must be maintained for proper curing.
3. When mixing the polymeric resin components, be sure to use all of the provided resins. The resins are pre-measured to the correct ratios. Scrape all of the hardener from the container into the resin.
4. Do not turn mixing vessels upside down to drain on the flooring surface. Unmixed resin from the side may produce soft or uncured spots on the flooring surface.
5. Keep the unfinished flooring surface clean. Do not track dirt, grease, or any other contaminate onto the unfinished flooring surface.
6. Good ventilation must be provided during application, particularly in confined spaces.
7. Always obtain, read and observe Manufacturers Safety Data Sheets (MSDS) before handling polymeric materials. Become familiar with the products on paper before you open the cans.
7. In general, prolonged contact of polymeric resins with skin may cause irritation. Contact with curing agents may cause skin burns. Products may cause skin sensitization or other allergic responses. Avoid all contact with eyes.
8. In case of contact with skin, immediately remove the material with soap and water. Upon completion of work at lunch-time or end of day, carefully check all skin surfaces for any traces of polymeric resins. Wash with soap and water. If wash facilities are not located nearby, establish water washing station at work site. **DO NOT** use solvents to remove polymeric resins from skin as solvents will drive polymeric resins deeper into skin. If redness or skin rash develop, consult a physician.
9. In the event of eye contact, flush immediately with plenty of water for at least 15 minutes. Consult a physician immediately.
10. Mix and apply polymeric resin materials only in conditions of good ventilation. Avoid breathing vapors. A fan to circulate fresh air may be needed. Certain polymeric resin products and/or certain working conditions require use of NIOSH/MSA organic vapor respirator. Consult MSDS.
11. First Aid for inhalation: if effects occur, remove patient to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get immediate medical attention.

General Conditions for Safe Handling of Polymeric Resinous Flooring Systems

1. Read and observe precautionary statements on product labels.
2. Keep containers tightly closed.
3. Keep out of reach of children.
4. For industrial use only. Do not allow application by untrained workers.
5. Remove contaminated clothing and shoes. Wash clothing before re-use.
6. Use of safety goggles and chemical resistant gloves is recommended. Wear only full length



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