



# Application Specification

# TERRACOLOR

## Purpose and Scope

To outline instructions for application of Dex-O-Tex Terracolor, a terrazzo-like interior deck covering that does not require grinding. This product is manufactured to meet the requirements of MIL-PRF-24613(SH), Type I, Class 3, Deck Covering Materials, Interior, Cosmetic Polymeric.

**Thickness** ..... 1/4" (6.35 mm)

## Approximate Quantity of Materials Required

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

	<u>Thickness</u> 1/4" (6.35 mm)
<u>Terrazzo M Underlayment</u> , (as required) See "Preparation" on following page.	
Terracolor Topping Terrazzo M Bondcoat (A & B Components).....	33 unit
Terracolor Topping Kit (C & D Components, plus Aggregate packed in a 6-gal. container).....	3.85 units
<u>Terrazzo M Grout Resins</u> E & F Components .....	1.00 unit
<u>Terrazzo M Sealer Resins</u> G & H Components .....	.25 unit
<u>*Special Slip-Resistant Texture</u> Add, per 100 sq. ft. (9.3 mm):	
Terrazzo "M" Sealer, (G & H Components).....	1.00 unit
Slip-Resistant Aggregate, (packed in pint can) .....	1.66 units
Terrazzo M Bondcoat (A & B) and Terrazzo M Grout Resins (Components E & F) and Sealer Resins (Components G & H) are available in 1/2 and 1/4 units.	

Terracolor Topping Kits are available in half units packaged in 3.5 gallon pails.

## Equipment Required

- Dex-O-Tex Drill Mixing Equipment
- "Jiffy" Blade, (small size)
- Wooden Mixing Paddle
- Rubber-tipped pastry spatula
- Rubber-edged Plasterer's Squeegee—one 12" (30 cm) and one 6" (15 cm)
- Dex-O-Tex trowel (3" x 12") (8 cm x 30 cm)
- Plasterer's Steel Trowel (4" x 16") (10 cm x 40 cm)
- Industrial Vacuum
- Disc and/or Spinner Sander with No. 1-1/2 closed-coat sanding discs
- Good lighting, preferably floor level
- Approved solvent for cleaning tools
- Protective handcream

## Surface Preparation

Metal deck surfaces should be cleaned free of rust, loose scale, and dirt. Grease and oil should be removed with approved solvents and clean rags. The resulting surface should be clean and bright and protected against corrosion before Dex-O-Tex materials are applied. Dex-O-Tex Terracolor may be applied to a cured Navy Formula 150 Primer, MIL-DTL-24441 or Dex-O-Tex Terrazzo M Underlayment installed in accordance with Dex-O-Tex Application Specification S-108M (Marine).

## Material Temperature

The temperature of the materials should be between 65°F to 80°F (18°C to 27°C) for good application properties.

## Application Temperature

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

## Application Procedure

Separate material so that they will not be intermixed:

- Terrazzo M Bondcoat (A & B packed in cartons)
- Terrazzo M Underlayment (C, D and Aggregate packed in pails)\*



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Terracolor Topping (C, D and Aggregate packed in pails)

Terrazzo M Grout Resins (E & F packed in cartons)

Terrazzo M Sealer Resins (G & H packed in cartons)

Terrazzo M Slip-Resistant Aggregate (packed in 1-pint cans)\*

\*Optional.

## 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 a “Jiffy” blade or other mechanical means for two (2) minutes. Terrazzo M Bondcoat has a pot life of approximately 1/2 hour 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 poured out of the mixing pail and either 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. (27.87m<sup>2</sup>) on steel decking when applied with squeegee.

Apply Terrazzo M Bondcoat by trowel, brush, or hand squeegee. Apply only a thin coating. Apply evenly and remove all excess, **leave no puddles.**

Terrazzo M Bondcoat may be applied in any one of the techniques listed below:

1. Apply to small area in a very thin coat with squeegee or trowel. Immediately prior to application of Terracolor Basecoat mix.

**LEAVE NO PUDDLES.**

2. Apply as above to large area and subsequently install Terracolor Basecoat Mix over wet

Terrazzo M Bondcoat with mechanics working on kneeboards.

3. Apply to area and sprinkle a small amount of dry Terracolor Aggregate on the wet Bondcoat surface. Apply Terracolor Basecoat the next day. The aggregate will produce a “tooth” which will keep the Basecoat from sliding on the dried Bondcoat surface.

## STEP TWO – Terracolor Topping

Apply the Terrazzo M Bondcoat as described in Step One above to a prepared steel surface or to the Terrazzo M Underlayment if it is part of the surface preparation. The roughness of the surface of the underlayment may reduce the spread rate of the Bondcoat required to approximately 150 sq. ft. (13.94 m<sup>2</sup>) per unit (1 gallon). Apply Bondcoat just ahead of the application of the Terracolor Topping as topping is troweled into the wet bonding coat.

The Terracolor Basecoat C Component (1-gal. can) and the D Component (1-qt. can) are packaged in a 6-gallon pail along with the measured quantity of colored marble aggregate to provide proper proportions.

Remove the cans containing Components C and D from the 6-gallon pail and “pre-blend” the colored marble aggregate using the Dex-O-Tex mixing blade mounted in a slow-speed 3/4” (19 mm) drill.

Pour the D Component into the can containing the C Component (be sure to scrape out all the D Component to mix into the C Component). Blend thoroughly with a “Jiffy” blade for two to three (2-3) minutes to insure complete blending of the resins. Then, into a clean 6-gallon (or larger) container, pour the thoroughly blended resins. Add the pre-blended aggregate portion to the resin mix and with the Dex-O-Tex mixing blade, blend the aggregates and resins thoroughly for two to three (2-3) minutes. “Box” the mixed terrazzo material into another clean pail and re-blend to be sure resin binder liquid is uniformly coating the aggregate particles.



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Terracolor Topping Mix will give a workable composition with a pot life of one hour at 70°F. to 75°F (21°C to 24°C) capable of being troweled to an even, dense surface in a minimum thickness of 1/4" (6.35 mm) when desired. It can be installed in greater thickness than 1/4" (6.35 mm) when desired.

Place the necessary amount of Dex-O-Tex Terracolor Topping Mix onto the area previously coated with Terrazzo M Bondcoat (see Step One above), 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. Be sure when applying Dex-O-Tex Terracolor Topping that good light is available at deck level for the observation and correction of "drags", trowel "ridges" or "opens". Opens should be corrected by applying additional material on the surface and compacting into place. The finish should be worked to as uniformly dense and smooth a surface as possible. Do not overtrowel, as "trowel-burns", or a metallic staining from the trowel, can result.

A 6-gallon unit of Terracolor Topping Mix should cover approximately 26 sq. ft. (2.42m<sup>2</sup>) at 1/4" thickness. Working time in the container is approximately one hour at room temperature (65°F) (18°C).

Overnight cure is desirable before application of Dex-O-Tex Terrazzo M Grout Coat.

### STEP THREE – Terrazzo M Grout Application

Before grouting, when the Terracolor Basecoat is hard enough to be walked on, the surface should be scraped with the edge of the trowel, or for best results, lightly sanded with a disc or spinner type sander using No. 1-1/2 closed-coat sanding discs, and then vacuumed. The sanding operation will cut down minor trowel licks and any droppings from the trowel application. **DO NOT** concentrate on one spot to eliminate troweling errors. Vacuum up all dirt and dust after sanding.

Take particular care to keep the surface clean of stains, otherwise they will be permanently sealed in. Attention must be given to the cleanliness of the applicators' shoes and kneepads. Mechanics' shoes should be covered with clean polyethylene before they walk on the Terracolor surface.

Pour Terrazzo M Grout Resin Component F into Component E and blend together slowly but thoroughly with a "Jiffy" blade. With squeegee, apply the resulting mix to an even minimum thickness, taking care to leave no puddles or streaks from flow-off from squeegee. A unit should cover approximately 100 sq. ft. (9.2 m<sup>2</sup>). Allow to cure overnight, or until dry, before re-coating. Pot life is 30 minutes maximum.

### STEP FOUR – Terrazzo M Sealer Coat

Pour the H Component of the Terrazzo M Sealer Resin into the G Component. Blend thoroughly with a "Jiffy" blade. Pour some of the well-stirred blend into a paint roller pan and apply the material to a minimum thickness, using a 1/4" (6.35 mm) nap roller. Care should be taken not to leave puddles and to even out ridges in the Sealer coat. Allow to cure overnight. One unit will cover approximately 400 sq. ft. (36.8 m<sup>2</sup>). Working time in the container is approximately 30 minutes.

#### **NOTE:**

If additional Terrazzo M Sealer coats are desired or required, follow STEP FOUR. Coverage per unit will increase to approximately 600 sq. ft. (55.75 m<sup>2</sup>).

### Cautions

1. For proper workability it is important for Dex-O-Tex materials to 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



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room temperature of 65°F or slightly higher must be maintained for proper curing.

- 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.
- 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.
- Keep the unfinished flooring surface clean. Do not track dirt, grease, or any other contaminate onto the unfinished flooring surface. Any contaminate could effect the aesthetics of the finished flooring.
- Good ventilation must be provided during application, particularly in confined spaces.
- 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.

### General Conditions for Safe Handling of Polymeric Resinous Flooring Systems

- Read and observe precautionary statements on product labels.
- Keep containers tightly closed.
- Keep out of reach of children.
- For industrial use only. Do not allow application by untrained workers.
- Remove contaminated clothing and shoes. Wash clothing before re-use.
- Use of safety goggles and chemical resistant gloves is recommended. Wear only full length trousers and long-sleeve shirts. Apply protective creams to exposed skin areas.
- 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.

- In case of contact with skin, immediately remove the material with soap and water. Upon completion of work at lunchtime 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.
- In the event of eye contact, flush immediately with plenty of water for at least 15 minutes. Consult a physician immediately.
- 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.
- 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.



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