

EarthBond Terrazzo

Technical Data

COVERAGE

1 bag = 24 sq. ft.
@ 1/2" Thickness

TECHNICAL DATA

- Compressive Strength (C170) 7,000 PSI to 12,000 PSI depending upon aggregate type
- Flexural Strength (C880) 1,464 PSI
- Abrasion Resistance (C1353-96) 20.92
- Bond Strength (C482) 83 PSI
- Material Density 120 - 150 lbs./cu. ft. depending upon the aggregate
- Water Permeability (Not ASTM) 3 days/no leak

LIMITATIONS

Do not allow EarthBond Terrazzo Modifier to freeze. Apply in temperatures between 40° and 90° F. Competent contractors experienced in the placement of this product should apply this product.

DESCRIPTION

CarpenterStone's EarthBond Terrazzo is a new solution for cementitious terrazzo. It is simpler and easier to mix and apply than traditional epoxy-based terrazzo. EarthBond Terrazzo is a dense, fiber-reinforced engineered cementitious composite that can be applied in a thinner coating than traditional cementitious terrazzo. Also, due to the fact that there are no epoxy resins in the material, no dangerous chemicals and fumes are given off during installation. Consequently, the material is safer and more environmentally friendly. With no epoxy resin to breakdown in the direct sunlight, the mixture can be used in both interior and exterior applications.

SURFACE PREPARATION

The concrete slab or substrate must be fully cured in excess of 28 days. It must be clean and free of dirt, dust, oil, paint and other foreign materials. By damp mopping the surface before installation, you will reduce the risk of the underlying substrate absorbing the water from the mix. For additional adhesion insurance, a latex bonding agent may be applied. Preparing the floor mechanically by shot blasting or grinding with scarifying diamonds will also further insure successful bonding. Maintain temperature of at least 50 degrees for at least 72 hours during and after floor installation.

MIXING INSTRUCTIONS

1. Add 2 gallons of EarthBond Terrazzo Modifier (liquid - Part A) into bucket or mixer
2. Add one bag of EarthBond Terrazzo Dry Mix (Part B)
3. Mix the two together for approximately 1 to 2 minutes
4. Add selected specialty aggregate and mix for an additional minute. Add color per specifications and mix for an additional 2 minutes making sure that the color is well blended.
5. Add 20 ounces of EZ Flow (Part C) to the blend and mix thoroughly. Slowly add the EZ Flow until you achieve the desired viscosity.
6. Continue to mix until all of the ingredients are completely blended and the desired viscosity is achieved.

APPLICATION

Pour completed terrazzo mix on the floor. Trowel to the desired height (3/8" to 1/2" should be acceptable) based upon the size of the aggregate and/or strip height selection. Make sure the aggregate is covered by the slurry. Trowel mixture until the topping is smooth and level.

Best results are achieved when waiting 24 hours (or until it sets sufficiently hard to permit coarse stone grinding without dislodging surface aggregate) to begin typical polishing procedures. Traditional grinding can be started around 120 metal bond grit but since every floor is different, you may have to go higher or lower. After your first pass of grinding, apply a slurry coat. After removing the slurry coat, you should apply the densifier. Thereafter, follow your traditional polishing steps for cementitious terrazzo.

CURING

(If the installation is exterior and/or is subject to dry, hot, and/or windy conditions, the area may be covered to slow hydration with either waterproof paper, cotton mats, or one inch of clean wet sand. Keep sand (if used) wet by sprinkling with clean water at intervals of not more than eight hours. Do final grinding or rubbing of terrazzo before finish coat of plaster or other connecting wall finish is applied. If these methods are utilized, the timing for grinding and polishing may be delayed.)

IMPORTANT: Terrazzo installation is a true art with many nuances. Superior results are often achieved only by experienced personnel with many years of experience who have refined skills and knowledge. The instructions provided here are of the most basic information. If you are an experienced tradesman, when in doubt follow the standard policies and procedures used in traditional cement terrazzo. For those who are new to this application, more information is available on the internet or from your distributor.