

EarthBond Pre-Slope

Technical Data

COVERAGE

1 bag = 15 sq. ft.
@ 1/2" Thickness

TECHNICAL DATA

- Compressive Strength (C170) 7,000 PSI
- Material Density 148 lbs./cu. ft.

PRODUCT BENEFITS

- Water Resistant
- Pitch from 5" to 1/4"
- No polymers or resins
- No water needs to be added

CURING

Although curing is accomplished through chemical reaction, weather conditions impart a measure of variability that must be considered. Hot, dry, and/or windy weather speeds up the reaction. Conversely, cold, damp weather will slow down the reaction. These variables may dramatically affect the progress and placement of the product. During curing, protect CarpenterStone Underlay from excessive heat and draft conditions, which could cause cracking. Mist-spray the surface with water during the first 72 hours of wet curing, if possible. Do not use a curing compound. If rain is imminent, cover surface with polyethylene sheets.

DESCRIPTION

CarpenterStone's EarthBond Pre-Slope Underlayment is a Two-Component, water resistant, shrinkage-compensated engineered cementitious composite used for pitching and leveling horizontal or vertical surfaces. Once mixed, the material is easily placed onto surfaces in thicknesses of 1/4" to 5" (6 mm to 22,5 cm) and produces a dense, durable resurfacing material with outstanding adhesion, flexural and compression strengths. It has very low permeability, offering high resistance to freeze/thaw cycles and chloride ion penetration.

EarthBond Pre-Slope Underlayment is a cementitious mix that can be sloped or pitched with no slumping or sagging. CarpenterStone Standard Pre-Slope Underlayment is an environmentally friendly product, with no VOC's or polymers, and utilizes recycled materials.

CHEMICAL MAKEUP

Proprietary high performance admixtures of the CarpenterStone Underlayment Modifier not only increase strength, but also, reduce permeability and shrinkage. The admixtures also help improve chemical resistance. This proprietary formula has superior adhesion characteristics and simplifies the traditional epoxy based systems installation process. This formula incorporates IZONIL waterproof technology.

SURFACE PREPARATION

Make sure that the substrate is free of laitance, glaze, efflorescence, dust, dirt, oil, grease, curing compounds, etc. that may impair bonding. Finally, verify that the substrate is dry and free of moisture.

MIXING

Into a clean mixing container, pour the entire amount of cool, Chemistry Liquid, (Part A) then slowly add 4/5 of CarpenterStone Underlay powder (Part B) while mixing, using a low-speed mixer. Add the remaining 1/5 of CarpenterStone Underlay powder (Part B) as needed to achieve the desired consistency. Mix for up to 4 minutes to a smooth, homogenous consistency. Do not over mix. Do not mix more material than can be applied within a 30-minute period.

APPLICATION

EarthBond Pre-Slope is to be screed applied and finished with a trowel. The maximum thickness per coat is 5" (12cm). CarpenterStone Underlay also can be applied with a low-pressure screw / roto-stator pump with a spray attachment. When encountering exposed reinforcing steel bars, clean bars to prevent corrosion and to improve adhesion (see Technical Data Sheet for details).

LIMITATIONS

Do not allow the CarpenterStone chemistry to freeze. Apply underlayment in temperatures between 40° and 90° F. In hot, dry weather, it may be helpful to dampen the substrate prior to applying the mix. Temperatures must be maintained within this range for at least 72 hours after the installation. Do not apply over standing water or wet surfaces. Competent contractors experienced in the placement of this product should apply this product.

INDUSTRY STANDARDS AND APPROVALS

Refer to the MSDS (Material Safety Data Sheet) for specific data related to VOC's, Health & Safety, and Handling of Product

PRODUCT PERFORMANCE PROPERTIES

Composition:	Engineered, fiber-reinforced cementitious composite with flow and set-controlling additives and extenders
Flow Time:	10 - 20 minutes at 70F
Initial Set:	45 - 90 minutes
Foot Traffic:	2 - 4 hours
Finishing/Covering:	12 - 24 hours
Mixing Ratio:	One gallon of modifier per one bag of dry mix
Coverage:	15 sq ft at ½" thickness
Minimum Application Temp:	40F (4C)
Compressive Strength:	6,000 PSI

ANSI Specification

28-Day Test	Test Method	ANSI Specification
Impervious ceramic (porcelain) mosaics shear strength	ANSI A118.4	>200 psi (1,38 MPa)
Glazed wall tile shear strength	ANSI A118.4	>300 psi (2,07 MPa)
Quarry tile to quarry tile shear strength	ANSI A118.4	>150 psi (1,03 MPa)
Quarry tile to plywood shear strength	ANSI A118.11	>150 psi (1,03 MPa)

Exceeds ANSI A118.4 and ANSI 118.11 Bond Strength Requirements