

Technical Data

COVERAGE

1 bag = 24 sq. ft.
@ 1/4" Thickness
12 sq. ft.
@ 1/2" Thickness

TECHNICAL DATA

- Compressive Strength (C170) 10,567 PSI
- Flexural Strength (C880) 1,464 PSI
- Abrasion Resistance (C1353-96) 20.92
- Bond Strength (C482) 83 PSI
- Material Density 135 lbs./cu. ft.
- Water Permeability (Not ASTM) 3 days/no leak

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, placement, and stamping of the product.

DESCRIPTION

CarpenterStone Overlay is a stampable cementitious topping for beautifying asphalt or concrete surfaces. When stamped, it creates a texture that can resemble a whole array of stamp designs: tile, cut stone, slate, brick, cobblestone, etc. CarpenterStone Overlay offers the most unique restoration, repair, resurfacing, architectural accenting, and surface protection of existing asphalt or concrete.

CHEMICAL MAKEUP

CarpenterStone Overlay utilizes fibers in the mix design, which enhance strength and flexibility essential in a thin topping. Proprietary high performance admixtures of the CarpenterStone Overlay Modifier not only increase strength, but also, reduce permeability and shrinkage. The admixtures also help improve chemical resistance.

SURFACE PREPARATION

Not recommended on asphalt that has been placed or resealed within 12 months (excessively oily) or asphalt that is loose or unsound. Apply a standard degreaser to the surface with pump-up sprayer @ rate of approximately 1 gal. to 150 sq. ft. Scrub with nylon bristle broom. Rinse with water pressure cleaner equipped with fan tip.

MIXING

Customarily large projects require multiple bags mixing simultaneously. While concrete tumble mixers and mortar mixers are appropriate, best results are achieved with a horizontal helical shaft mortar mixer. Introduce 1 color pack (if desired) to each gal. of CarpenterStone Overlay Modifier and mechanically mix thoroughly. Introduce 1—50 lb. bag of CarpenterStone Overlay for each gallon of modifier and mechanically mix for approximately 5 minutes after all ingredients are combined. Product should be a lump-free consistency similar to a loose oatmeal. Upon occasion the addition of up to 1 pint of water per bag is permitted if mix appears too "stiff." Exercise care with any additional water as it may contribute to excessive shrinkage that may cause cracking or weakening.

APPLICATION

Use a gauge rake to apply material at minimum 1/2" thickness over asphalt and 3/4" over concrete. Smooth surface with steel trowel, steel squeegee, or any appropriate smoother. Allow stamp coat to set until material does not stick easily to the finger when touched, yet yields to pressure. Because CarpenterStone Overlay is dependent upon a chemical reaction to meet its initial set, the time to begin stamping after placement of material ranges usually between 15 – 90 minutes. Apply release liquid to stamp tools and material to be stamped. The release can evaporate from surface; only apply an amount that may be stamped within several minutes, especially on hot sunny days. CarpenterStone Overlay can be stamped with regular concrete stamping tools as is customarily done. Exercise care not to excessively pound stamps, this may cause delamination. Double lines or ooze from tools should be addressed as stamping proceeds. Waiting until the product has set will require a grinder to effect clean-up. If product needs touching up or repair and has begun to tighten up, misting the surface with CarpenterStone Overlay Modifier and vibrating, will turn it back to plastic state. Following stamping, the same day, CarpenterStone Overlay must be scored similarly to control joints in concrete. Scoring should be at 1/4" depth, exercising care not to cut asphalt beneath. The score pattern should never exceed 6' squares. Any junctions between CarpenterStone Overlay and the asphalt should be scored to create separation. These separation score lines should be treated with a urethane caulk. Most urethane caulks may be tooled with mineral spirits before curing. *Secondary Coloring and Sealing:* Following scoring, a diluted scrub and rinse, will clean-up dust and prepare the surface to color and/or seal. A secondary accent coloring may be applied, if desired. After the stain dries, the surface should then be sealed to protect the color and enhance durability.

LIMITATIONS

Do not allow CarpenterStone Overlay to freeze. Apply overlay in temperatures between 40° and 90° F. Installation of CarpenterStone Overlay is not recommended on asphalt that has been poured or resealed within 12 months. Color segregation can occur while curing. Always make a sample for color selection. Cracks may telegraph into this overlay. Competent contractors experienced in the placement of this product should apply this product.