

TECHNICAL DATA SHEET ST-100

POLYMERIC DECORATIVE FLOORING
MIL-D-24613 Type III & Type I Class 3
MIL-D-3134 Type 1 Class 2

Description

ST-100 is decorative flooring consisting of epoxy resins and colored marble chip aggregate suitable for application in a single trowel step requiring no sealer or topcoat.

Fire retardant in the cured state, ST-100 is intended for use on interior metal decks in habitability, sanitary or other wet places.

Surface Preparation

1. Existing deck covering must be 100% removed. It is imperative that surfaces to which deck covering is to be applied be thoroughly cleaned of all foreign matter such as dirt, oil, grease, wax, paint, rust, scale, moisture, and other contamination before installation is begun.
2. Preparation shall be by methods most feasible, such as grinding, sanding, or using needle point gun to expose bright metal. Concrete should be clean and sound prior to application. Consult surface preparation sheets available from American Safety Technologies for more detailed procedures.
3. Remove all dust and other loose matter from area. Clean deck free of remaining contaminants with an approved degreasing solvent.
4. If exposed surface requires corrosion protection, apply MS-7C, or MS-7CZ Primer.

Mixing

ST-100 is pre-packaged in a kit containing a two-component epoxy resin and colored marble chip aggregate to cover 16-22 square feet. Bond Coat, Underlayment, Grout Coat and Seal Coat are available from American Safety Technologies and must be purchased separately.

1. Remove Part A and Part B from the 6-gallon pail.
2. Pre-mix dry aggregates 2 minutes before adding catalyzed resin. Use J-7 heavy-duty mixer or powered paddle mixer.
3. Mix resin by pouring Part B and Part A into a separate container and mix thoroughly for 3 minutes scraping sides and bottom of can.
4. Pour mixed resin into pail with pre-mixed aggregates; continue mixing until all aggregates are thoroughly wet, pulling paddle from side to side of mixing unit.

SPECIFICATIONS

V.O.C.

- 0 lbs per gallon
(0 grams/ liter)

Pot Life

- 1 hours @ 70°F (21°C)

Dry Time

- 12 hours @ 70°F (21°C)

Cure Time

- 4 Days @ 70°F (21°C)

Estimated Coverage

- 16-22 sq. ft./kit @1/4"

Flash point

- N/A

Aggregate

- Colored Marble/Quartz Chips

Packaging

- Kit
Pail/Aggregate/
Epoxy Liquids

Application

FOR REQUIREMENTS OF MIL-D-24613 TYPE III

5. Remove from mixing unit and take pail to deck area. Trowel material to deck using standard cement finishing tools, compacting as you go. Use low-level lighting to avoid trowel marks.
6. Allow 12 hours at 70° before opening area for light traffic. If material is still tacky to the touch do not use until tack is gone and surface dry. If a high gloss finish is desired, use optional SC-100 Seal Coat. A seal coat is recommended to provide a consistent surface appearance.
7. Use EU-100 Epoxy Underlayment prior to applying ST-100 when desired to change contour grade or eliminate weld seams. EU-100 is applied over BC-100 Bond Coat. ST-100 may be applied directly over underlayment once it has cured hard and is no longer tacky.

FOR REQUIREMENTS OF MIL-D-24613 TYPE I Class 3 and MIL-D-3134 Type I Class2

Step 1. Bond Coat (If Required)

- a. Select proper amount of Bond Coat to match job requirements.
- b. When ready to apply, mix Part A and Part B together thoroughly for approximately three minutes. Be sure to scrape side and bottom of can to insure complete mixing. Apply with brush and/or short nap roller. Apply to all surfaces where underlayment is to be applied, including cove base and protrusions. Avoid puddles.
- c. Allow Bond Coat to remain on deck no more than 30 minutes before applying underlayment. Underlayment or ST-100 must be applied while Bond Coat is still tacky.

Step 2. Underlayment (if required)

1. EU-100 Epoxy Underlayment may be used when deck requires change in contour or grade. Follow mixing and application instructions for Trowel Coat. Allow to cure 6 hours or until hard; apply another coat to Bond Coat before application of Trowel Coat. Trowel Coat may be applied thicker to level and pitch to drain. In this instance Underlayment is not required.

Step 3. ST-100 Trowel Coat

1. Follow mixing direction on front page.
2. Apply ST-100 directly over tacky Bond Coat to a minimum thickness of 3/16".
3. Compact ST-100 into dense surface using standard cement finishing tools. Use low light to help avoid trowel marks.

CAUTION
Read Material Safety Data Sheet before using this material.
Contains epoxy resins. Catalyst contains Amines. Use only with adequate cross ventilation. Keep away from extreme heat, sparks and open flame. Avoid prolonged breathing of vapors. For dizziness, seek fresh air. Toxic material. Avoid contact with skin. Use gloves, goggles and coveralls. In case of spillage on clothing, change clothing to prevent prolonged contact with skin. Wash contaminated clothing before reuse. Discard contaminated shoes. In case of accidental contact with skin, wash immediately with soap and water. In case of eye contact, flush thoroughly with plenty of water and call physician. If swallowed accidentally, do not induce vomiting. Seek medical attention immediately.

The user of this product is responsible for making its own evaluation and tests regarding the capabilities, safety, utility, suitability and application of the product, and assumes all risks and liabilities resulting from the use or application of the product, whether used alone or with other products. American Safety Technologies (herein referenced to as the COMPANY) warrants only that the product conforms to the specifications contained in product Technical Data Sheets published by the COMPANY, a copy of which is available to the user. If the product fails to conform to this warranty, the user shall return the product within 10 days of the purchase date with a note specifying the defect and the COMPANY will either replace the product or at its option, return the purchase price. EXCEPT AS EXPRESSLY PROVIDED IN THIS PARAGRAPH, THE COMPANY MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND HEREBY DISCLAIMS THE SAME. In no event shall the COMPANY be liable to the user of this product, whether in contract or in tort or under any other legal theory (including, without limitation, negligence), for damages which exceed the purchase price of the product, or for any indirect, incidental, consequential or similar damages, arising out of sale, use or application of the product, or for any claim made against the user by any other party, even if American Safety Technologies has been advised of the possibility of such claim.

4. Allow material to cure for minimum 6 hours or until hard.
5. Sand or Grind surface as may be necessary to make surface smooth.

Step 4. Grout Coat (2 Coat Required)

1. Workmen should wrap shoes in polyethylene, masking tape, or other suitable covering to protect surface.
2. Select proper amount unit of GC-100 Grout Coat to match job requirements.
3. Pour entire contents of Part B into Part A and stir thoroughly for approximately three minutes. Be sure to scrape sides and bottom of container while stirring to redispense any settlement. Pour from mixing container at once to prolong working life.
4. First Coat -- Apply by brush to base, corner, around stanchions, and other hard to reach areas. For walking surfaces and other accessible flat areas, apply with red or white rubber squeegee. Take care not to leave ridges and drops of GC-100 on surface. Do Not Over Seal. A properly sealed surface has all voids filled with sealer uniformly.
5. Second Coat -- Apply second coat of GC-100 or for high gloss finish, apply second coat as SC-100. For GC-100 -- Apply second coat using brush and squeegee as in application of the first coat. After applying second coat, back-roll surface with short nap roller (1/8") to eliminate any squeegee marks and to give an even texture. For SC-100 -- Apply with a short nap roller.
6. Allow at least 12 hours cure time at 70°F before opening area to limited traffic.
7. An additional optional coat of SC-100 seal coat may be applied for higher gloss and a smoother finish.

Surface Maintenance

To maintain the performance of ST-100, we recommend periodic cleaning with an approved cleaner/degreaser in accordance with current military directives. Scrub surface with a long handled, fiber bristled brush or floor machine.

Rinse with clean water and dry. Foreign matter such as chewing gum should be gently removed with a scraper or putty knife and then cleaned as above.

Color Blends

Houndstooth, Morning Gray, Gold and Red, Salt & Pepper, Brown and Horizon Blue. Custom Colors are available and subject to minimum order requirements. Contact AOCC / GULL Industries for more information at 1-757-490-0445 / NAVDECK@AOL.COM.