

PRODUCT DESCRIPTION

Stonglaze E4 is a two component, high performance, high solids, pigmented epoxy coating. It is formulated to provide long-term protection to vertical surfaces. Stonglaze E4 cures to a hard, tile-like finish that exhibits excellent chemical and scrub resistance. Stonglaze E4 is an aesthetically pleasing and easy to clean wall coating.

SYSTEM OPTIONS

Antimicrobial

Stonplus AM9 is an antimicrobial, organic thione compound that acts as a permanent bacteriostat and fungistat against a broad range of gram-positive and gram-negative bacteria and fungi. Stonplus AM9 is EPA registered and contains no heavy metals.

PRODUCT ADVANTAGES

- Durable glaze finish that is aesthetically pleasing and easy to clean.
- Long-term chemical & abrasion resistance.
- Stain resistant.
- Excellent bond strength assures good adhesion to concrete, steel, drywall and masonry surfaces.
- Easily applied by brush, roller or spray application.
- Available in standard and custom colors.

PACKAGING

Stonglaze E4 is packaged in units for easy handling. Each unit consists of:

- 1 carton containing:
 - 2 foil bags of Stonglaze E4 Amine
 - (2) 1 gallon cans of Stonglaze E4 Resin

COVERAGE

Each unit of Stonglaze E4 will cover approximately 37.16 m² at 127 to 178 micron thickness (DFT) over relatively smooth surfaces.

STORAGE CONDITIONS

Store all components of Stonglaze E4 at or above 18°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is 3 years in the original unopened container.

COLOR

Stonglaze E4 is available in 6 dynamic colors. Refer to the Stonglaze Color Sheet. Custom colors are available upon request.

SUBSTRATES/PREPARATION

When used in conjunction with its appropriate primer, Stonglaze E4 is suitable for use over wall board, wood, metal and concrete substrates. These substrates must be clean, dry, and free of any laitance or unbonded materials.

PHYSICAL CHARACTERISTICS

Pot Life	20 to 25 minutes @ 21°C
Suggested Numbers of Coats	Spray – 1 Roller - 2
Minimum Dry Film Thickness	127 microns/coat
Cure Rate (@ 25°C)	8 hours for tack-free surface 24 hours minimum for normal operations
Hardness (ASTM D-2240, Shore D)	80 to 85
V.O.C. (ASTM D-2369)	Stonglaze E4 - 39 g/l

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

Any wall board surface must be finished to a level 1,2, or 3 drywall finish with an appropriate spackle compound (green board and cement board will require water resistant drywall compound or setting compound). **To ensure excellent, long term performance, it is critical that Stonglaze E4 is never installed over a level 4 or 5 drywall finish.**

Concrete block walls (CMU) must be given sufficient time for the mortar to fully cure. Excess mortar and any residual laitance or debris must be removed by mechanical means prior to installing Stonglaze E4.

Formed or poured concrete walls must be prepared by mechanical means to remove any laitance or efflorescence and provide a sandpaper texture suitable for bonding.

Previously painted substrates must be inspected to determine the level of drywall finish (for wall boards) and the type of paint. Stonglaze E4 will bond well to prepared epoxy paints, but will not bond to latex, oil, urethane, or acrylic paints. If upon inspection, a level 4 or 5 drywall finish, or one of the previously mentioned paints is found, it must be removed by mechanical means prior to application of the Stonglaze system.

PRIMING

Priming for wall board applications, including sheetrock, green board, and paperless drywall, HT primer or Stonchem epoxy primer should be used to ensure proper adhesion and serve as a sealer coat between the Stonglaze coating and the substrate. The coverage for HT primer and Stonchem epoxy primer will be approximately 37 m² per unit over any of the wall boards mentioned. For concrete and concrete masonry unit (CMU) walls, Stonglaze E4 should be used as a primer. The coverage for Stonglaze E4 will fall between 23.23 to 37.16 sq. m per unit depending on the condition and porosity of the substrate.

MIXING

The components of Stonglaze E4 are mixed just prior to use and must be applied immediately. Mixing is accomplished as follows:

1. Using a heavy-duty, slow speed drill (400 to 600 rpm) with a mixing paddle or a Jiffy mixer, pre-mix the epoxy material to assure the suspension of solids.
2. Pour the contents of epoxy into a 18.93 liter bucket or appropriate mixing container.
3. Add amine and continue to mix thoroughly to a uniform Consistency for 2 minutes. While mixing, scrape the sides of The bucket to ensure that the epoxy is being mixed completely with the amine.

Note: Avoid high-speed mixing that will entrain air bubbles.

APPLYING

The application of Stonglaze E4, which begins immediately after mixing, may be accomplished using a high quality medium nap roller or an airless sprayer.

Application of Stonglaze E4 by roller method should be accomplished with two coats of Stonglaze E4 applied at 125 to 180 microns (WFT). The second coat can be applied after the first coat is tack-free (8 hours at 25°C). For a smooth finish sand between the coats. IMMEDIATELY after rolling the second coat, a saturated medium nap roller should be used to remove roller lines and drips. Finish roll in one direction only, picking the roller up between passes.

Note: Use a heavy nap roller for rough surfaces to ensure uniform coverage. Rough surfaces, such as unprimed concrete block, may reduce your coverage by as much as 9.29 m² per unit.

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

To spray Stonglaze VSR, suitable NIOSH/MSHA approved respirators should be worn by all personnel in the area. Stonglaze VSR can be spray applied in a single application at a thickness ranging from 250 to 380 microns (WFT.) Spray applying this material should be done using a plural component pump with the following specifications:

63:1 pump - 2 1/2 gallons per minute
0.019 - 0.035 inch spray tip
3,000 - 4,000 psi spray tip pressure

It should be noted that the finished texture of a sprayed surface will be much smoother than the orange peel texture that is associated with roller applications. For more information on spraying Stonglaze VSR, contact Stonhard's Technical Service Department.

NOTES

- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- For environments not referenced in the Chemical Resistance Guide, consult Stonhard for recommendations.
- Material Safety Data Sheets for Stonglaze E4 are available on line at www.stonhard.com under Products or upon request. A staff of technical service engineers is available to assist with product application or to answer any questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

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