

PRODUCT DESCRIPTION

Stonglaze VSE is a multi-layer, liquid applied, flexible urethane wall system for high abuse applications. This product is specifically designed for use on vertical applications to provide a seamless, smooth, tough surface that promotes a sanitary environment. It is comprised of:

Base Coat

A two-component urethane membrane.

Topcoat

A two-component waterborne polyurethane coating.

USES, APPLICATIONS

Stonglaze VSE is specifically designed for use where impact resistance and crack-bridging are desired on a vertical surface. Stonglaze VSE is an ideal wall system for institutional and industrial facilities for both new construction and renovation. Typical wall applications for Stonglaze VSE include:

- Medical facilities
- Educational facilities
- Pharmaceutical facilities
- Food processing facilities
- Detention facilities

SUBSTRATE

Stonglaze VSE, in conjunction with its appropriate primer, bonds firmly to concrete, masonry block, metal, wood and drywall surfaces. Drywall surfaces should have seams taped and spackled to a level 3 finish. Not recommended over mastics, painted surfaces, plaster, rust or mill scale. These materials must be removed by mechanical means prior to application of Stonglaze VSE.

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

- Excellent bond strength assures superior adhesion
- Seamless and monolithic
- Permanently elastic
- Non-deteriorating
- Easily applied to vertical surfaces

PHYSICAL CHARACTERISTICS

Cure Rate	8 to 10 hours (@ 77°F/25°C) for tack free surface 24 hours (@ 77°F/25°C) for normal operations
Pot Life	20 to 25 minutes (@ 77°F/25°C)
Suggested Application Thickness	25 mil/ 635 microns
Tensile Strength	1,100 psi (ASTM D-638)
Elongation	200% (ASTM D-638)
Hardness	70 (ASTM D-2240, Shore A)
Bond Strength	>400 psi (ASTM D-7234) (100% concrete failure)

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual wall system, including binder and filler, were used as test specimens.

- Factory proportioned packaging ensures consistent, high quality mixing
- UV Resistance
- High gloss or flat finish
- Stain Resistance
- Crack Bridging

PACKAGING

Stonglaze VSE is packaged in units for easy handling. Each unit contains:

Stonglaze VSE Base Coat

- (1) 2 gallon pail of Part A (curing agent)
- (1) 5 gallon pail of Part B (resin)

Stonglaze VSE Topcoat

2 cartons each containing:

- 1 pint can of curing agent gallon pail of Part A
- (1) 1 gallon pail of polyol resin

COVERAGE

Approximately 300 sq. ft./27.9 sq. m per unit at an application thickness of 25 mil/635 microns.

STORAGE CONDITIONS

Store all components of Stonglaze VSE between 60 to 85°F/16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 2 years in the original, unopened container.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The existing walls must be free of latex, oil based, or acrylic paint, wax, grease, oils, fats, soil, and loose or foreign materials. Painted block walls must be cleaned by mechanical methods, i.e., sandblasting or diamond grinding. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonklean DG9) and rinsing with clean water. For recommendations or additional information regarding wall preparation, contact Stonhard's Technical Service Department.

PRIMING

Primer must be applied to the wall surface before installing Stonglaze VSE. Allow the primer to dry before applying Stonglaze VSE.

Contact Stonhard's Technical Service Department for primer recommendations.

PATCHING

For proper coating application, all cavities and voids in the concrete should be filled with Stonset PM5 patching compound. Apply Stonset PM5 directly onto wall and sand to ensure that the surface is as smooth as possible.

MIXING

Stonglaze VSE is supplied in pre-measured quantities. Mixing must be achieved by mechanical means. Mechanical mixing should be done using a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer: Open Part B and pre-mix for 30 seconds to assure the suspension of solids. Add Part A and continue to mix to a uniform consistency for 2 minutes. Avoid high-speed mixing that will entrain air into the mix. Thorough mixing of the two components is required.

POT LIFE

Stonglaze VSE has a working time of approximately 20 to 25 minutes at 77°F/25°C. The working time may vary depending upon ambient and surface conditions.

APPLYING

Stonglaze VSE can be applied at ambient temperatures of 60 to 85°F/16 to 30°C. This coating must be applied immediately after mixing the two components. Stonglaze VSE Base Coat may be applied by using a 3/8 in. to 1/2 in. medium nap roller. Stonglaze

VSE Base Coat may also be spray applied. Stonglaze VSE Topcoat should be applied at ambient and surface temperatures of 60 to 85°F/16 to 30°C and humidity below 80%. Stonglaze VSE Topcoat may be applied by brush, or medium nap roller.

An application thickness of 25 mil is recommended. Any questions regarding the application of Stonglaze VSE should be directed to Stonhard's Technical Service Department.

CURING

The surface of Stonglaze VSE will be tack-free in 8 to 10 hours at 77°F/25°C. Ultimate physical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperatures are 60°F/16°C at the time of application.
- Do not use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and properties of the material.**
- Application and curing times are dependent upon ambient and surface conditions.

PRECAUTIONS

- Toluene or Xylene solvents are recommended for clean up of the unreacted Stonglaze VSE material. The reacted materials must be removed by mechanical means. Use these materials only in strict accordance with the manufacturer's recommended safety procedures.
- Dispose of waste materials in accordance with federal, state and local regulations.
- The use of NIOSH/MSHA approved respirators with organic vapor/acid gas cartridges is required when spray applying this product.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Stonglaze VSE are available on line at www.stonhard.com under Tech Info or upon request.
- A staff of technical service engineers is available to assist with application, or to answer 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.

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.

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