STONCLAD® GS

PRODUCT DESCRIPTION
Stonclad GS is a four-component, troweled, epoxy mortar system. The system consists of an epoxy resin, amine curing agent, pigments and selected, graded aggregates. Stonclad GS can be applied at thickness ranging from 1/8 in./3 mm to 1/4 in./6 mm depending on application requirements. Stonclad GS cures to an extremely hard, impact-resistant mortar which exhibits excellent abrasion, wear and chemical resistance and can be used anywhere an epoxy mortar is required.

SYSTEM OPTIONS
Coatings
To improve cleanability and increase the resistance to damage from abrasion and chemical spillages, the following coatings are recommended: Stonkote GS4 and Stonkote HT4. Other coating options are available, please contact your local Stonhard representative or Technical Service for specific requirements.

Waterproofing
Where the total system must be waterproof, use of Stonhard's Stonproof ME7 membrane system is required, with strict adherence to application instructions.

Cove Base
To provide for an integral seal at the joint between the floor and the wall, cove bases in varying heights are available, contact your local Stonhard representative or Technical Service for details.

PACKAGING
Stonclad GS is packaged in units for easy handling. Each unit consists of:
2 cartons, each containing:
- 6 foil bags of Amine
- 6 poly bags of Resin
- 12 individual bags of Part C-1 Aggregate

1 carton containing:
- 12 bags of Part C-2 Pigment

PHYSICAL CHARACTERISTICS

Compressive Strength (ASTM C-579) after 7 days	10,000 psi
Tensile Strength (ASTM C-307)	1,750 psi
Flexural Strength (ASTM C-580)	4,000 psi
Flexural Modulus of Elasticity (ASTM C-580)	2.0x 10^6 psi
Hardness (ASTM D-2240, Shore D)	85 to 90
Impact Resistance (ASTM D-2794)	>160 in./lbs.
Abrasion Resistance (ASTM D-4060, CS-17)	0.1 gm *
Flammability (ASTM E-648)	Class 1
Thermal Coefficient of Linear Expansion	1.4 x 10^{-5} in./in.˚F (ASTM C-531)
Water Absorption (ASTM C-413)	0.2%
VOC Content (ASTM D-2369, Method E)	4 g/l
Cure Rate (at 75˚F/25˚C)	24 hours for normal operations

* Test samples finished with one coat of high solids epoxy coating

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.

COVERAGE
Each unit of Stonclad GS will cover approximately 200 sq. ft./18.6 sq. m of surface at a nominal 1/4 in./6 mm thickness.

STORAGE CONDITIONS
Store all components of Stonclad GS between 60 to 85˚F/16 to 30˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

COLOR
Stonclad GS is available in 11 standard colors. Refer to the Stonclad Color Sheet. Color variations will exist if the Stonclad GS surface is not coated with a pigmented coating. Please contact your local Stonhard representative or Technical Service with any questions.

SUBSTRATE
Stonclad GS, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service.

SUBSTRATE PREPARATION
Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

PRIMING
The use of Standard Primer is necessary for all applications of Stonclad GS over all substrates except Stonset grouts. Over Stonset grouts, Stonhard's Stonset Primer is used. Please see the appropriate primer Product Data sheet for details.

MIXING
Proper mixing is critical for the product to exhibit the proper application properties, cure properties and ultimate physical properties. Mechanical mixing using a JB Blender (or equivalent 5 gal. pail mixer) or a larger mortar mixer (e.g., a Baugh 3 Batch Mixer) is required. See Stonclad GS Directions for further details.

APPLYING
- DO NOT attempt to install material if the temperature of Stonclad GS components and substrate are not within 60 to 85˚F/16 to 30˚C.The cure time and application properties of the material are severely affected at temperatures outside of this range.
- Material must be applied immediately after mixing.
- A suitable screed applicator is used to distribute the mixed Stonclad GS onto the floor.
- Steel finishing trowels are used to compact and smooth the surface of the material to the required thickness.
- Detailed application instructions can be found in the Stonclad GS Directions.

CAUTION
Avoid contact with all liquids as they may cause skin and/or eye irritation. If eye contact occurs immediately flush the area with copious amounts of clean water for at least 15 minutes and seek medical attention. Workmen should cover hands with latex or nitrile impermeable gloves and wear safety glasses. Wash hands thoroughly with soap and water after use, and before eating, smoking, etc.

NOTES
- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available in the Stonclad Chemical Resistance Guide. If a coating is utilized to seal the Stonclad GS surface, please ensure that you consult the Stonhard Chemical Resistance Guide.
- Safety Data Sheets for Stonclad GS are available online at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to answer questions related to Stonhard products specifically or flooring problems in general.
- Requests for literature can be made through local sales representatives and offices, or corporate offices located worldwide.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

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