

PRODUCT DESCRIPTION

Stonclad HD is a four component, troweled, epoxy mortar system. The system consists of an epoxy resin, amine curing agent, fine silica aggregates and aluminum oxide aggregates. The system also includes a high performance, chemically resistant, urethane sealer. The purpose of the sealer is to help fill in some of the porosity of the Stonclad HD mortar surfaces. The standard thickness for Stonclad HD is a nominal 1/4 in./6 mm. Stonclad HD cures to an extremely hard, impact resistant surface which exhibits excellent abrasion and wear resistance.

SYSTEM OPTIONS

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 heights from 2 to 6 in./5 to 15 cm are available.

PACKAGING

Stonclad HD is packaged in units for easy handling. Each unit consists of:

Mortar

2 cartons each containing:

6 foil bags of Amine

6 poly bags of Resin

2 cartons each containing:

6 poly bags of Part C-2 Pigment

12 individual bags of Part C-1 Aggregate

Stonseal UT7

1 carton containing:

4 bags of Poly

4 foil bags of Isocyanate

COVERAGE

Each unit of Stonclad HD will cover approximately 200 sq. ft./18.58 sq. m of surface at a nominal 1/4 in./6 mm thickness.

STORAGE CONDITIONS

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

COLOR

Stonclad HD is available in Steel or Charcoal Gray only.

SUBSTRATE

Stonclad HD, 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 HD 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.

PHYSICAL CHARACTERISTICS

Compressive Strength.....	11,000 psi
(ASTM C-579)	after 7 days
Tensile Strength	2,000 psi
(ASTM C-307)	
Flexural Strength.....	4,000 psi
(ASTM C-580)	
Flexural Modulus of Elasticity	1.7 x 10 ⁶ psi
(ASTM C-580)	
Hardness	90-93
(ASTM D-2240/Shore D)	
Impact Resistance.....	>160 in./lbs.
(ASTM D-2794)	
Abrasion Resistance	<0.1 gm *
(ASTM D-4060, CS-17)	
Thermal Coefficient	
of Linear Expansion	2.0 x 10 ⁻⁵ in./in. °C
(ASTM C-531)	
Water Absorption	0.2%
(ASTM C-413)	
VOC Content.....	6 g/l
(ASTM D-2369)	
Cure Rate.....	8 hours for foot traffic
(at 77°F/25°C).....	24 hours for normal operations

* Test samples finished with one coat of high solids urethane 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.

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 HD Directions for further details.

APPLYING

- Material must be used immediately after mixing.
- A Screed Applicator is used to distribute the mixed Stonclad HD onto the floor.
- Steel finishing trowels are used to compact and smooth the surface of the material to the required 1/4 in./6 mm thickness.
- Allow to cure for 8 to 10 hours and apply sealer coat.
- Detailed instructions on application and installation can be found in the Stonclad HD Directions.

APPLYING STONSEAL UT7 OVER STONCLAD HD

The one unit of Stonseal UT7 is used to help fill in the surface porosity of the Stonclad HD Mortar to increase chemical resistance. The Stonseal UT7 is mechanically mixed and then applied with a rubber squeegee and a nap roller. The majority of the Stonseal UT7 will soak into the Stonclad HD Mortar and will not remain on the mortar surface. The Stonseal UT7 is not designed to act as a typical sealer and sit on the mortar surface as Stonkote GS4 does on a Stonclad GS Mortar. The standard HD system does not appear to be sealed. If you require a well-sealed surface for your HD system, then additional Stonseal UT7 material will need to be ordered to achieve this finish. Any questions regarding the application of Stonseal UT7 should be directed to Stonhard's Technical Service Department.

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 maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available in the Stonclad Chemical Resistance Guide.
- Safety Data Sheets for Stonclad HD are available online at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with installation 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.
- 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.

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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