PRODUCT DESCRIPTION

Stongard MD is a nominal 1/8 in./3 mm thick decorative quartz, slip resistant broadcast system. The elastomer base allows the system to resist dynamic stresses in the substrate to ensure the system remains waterproof. It is comprised of the following:

Stonproof ME7
A two-component, free-flowing, 100% solids, urethane, elastomeric waterproof membrane

Stonshield Undercoat
A three-component, free-flowing, epoxy formulation consisting of resin, curing agent and fine aggregate

Stonshield Aggregate
Brightly colored, quartz broadcast aggregate

Stonkote CE4
A two-component, high performance, UV resistant, clear epoxy sealer

OPTIONS

Cove Base
Provides 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.

Standard or Medium Texture
Stonkote CE4 is applied at a thickness that will produce the desired texture.

PACKAGING

Stongard MD is packaged in units for easy handling. Each unit consists of:

Note: The Standard Primer/SL Primer required for this application is not included in the unit and MUST BE ordered separately.

Stonproof ME7
1 carton containing:
6 foil bags of Isocyanate
1 carton containing:
6 poly bags of Polyol

Stonshield Undercoat
0.75 carton of Stonkote CE4 containing:
6 foil bags of Amine
6 poly bags of Resin
0.75 carton of Stonshield Undercoat C-1 containing:
6 bags of Part C-1 (aggregate)

Stonshield Aggregate
6 individual bags of colored quartz aggregate

Stonkote CE4
One carton containing:
6 foil bags of Amine
6 poly bags of Resin

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-638)	1,300 psi
Flexural Strength (ASTM C-580)	1,900 psi
Flexural Modulus of Elasticity (ASTM C-580)	2.0 x 10^5 psi
Hardness (ASTM D-2240, Shore D)	85 to 90
Abrasion Resistance (ASTM D-4060, CS-17)	0.06 gm max weight loss
Flammability (ASTM E-648)	Class 1
Water Absorption (ASTM C-413)	0.1%
Heat Resistance Limitation	140˚F/60˚C (continuous exposure) 200˚F/93˚C (intermittent exposure)
VOC Content (ASTM D-2369)	Stonproof ME7 - 10 g/l Stonshield Undercoat - 5 g/l Stonkote CE4 - 5 g/l
Cure Rate (@77F˚/25˚C)	12 hours for foot traffic 48 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 Stongard MD will cover approximately 300 sq. ft./27.9 sq. m of surface at a nominal 1/8 in./3 mm thickness.

STORAGE CONDITIONS

Store all components of Stongard MD between 60 to 85˚F/16 to 30˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life of the epoxy primers/coatings is three years and the shelf life of the Stonproof ME7 is two years in the original, unopened containers.

COLOR
Stongard MD is available in 2 solid and 10 tweed standard colors. Refer to the Stongard Color Sheet. Custom colors are available upon request.

SUBSTRATE
Stongard MD, in conjunction with the proper primers, is suitable for application over properly prepared concrete, metal or wood. 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 and SL Primer is necessary for all applications of Stongard MD 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 slow-speed drill and a mixing blade.
- See Stongard MD Directions for further details.

APPLYING
- DO NOT attempt to install material if the temperature of Stongard MD 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.
- Detailed application instructions can be found in the Stongard MD Directions.

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 Stonshield Chemical Resistance Guide.
- Material Safety Data Sheets for Stongard MD 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.

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