PRODUCT DESCRIPTION
Stongard MR is a nominal 0.75 to 1 mm thick flooring system created for positive side waterproofing applications. It is designed to protect areas below mechanical rooms, pump and mezzanine floors. It is comprised of:

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

Stonkote HT4
A two-component, 100% solids, general purpose, epoxy coating

OPTIONS
Cove Base
Provides an integral seal at the joint between the floor and the wall. Cove bases in heights from 5 to 15 cm are available.

Fiberglass Reinforcement
Incorporate fiberglass into the system to aide in crack bridging properties.

Texture
Can be added to the system to provide slip resistance and wear properties.

Note: Some options can affect Physical Characteristics listed on the Product Data.

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

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

Stonkote HT4
0.75 cartons containing:
4 foil bags of Amine
4 poly bags of Resin

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-412)	8,3 N/mm^2
Elongation (ASTM D-412)	200%
Hardness (ASTM D-2240, Shore A)	70
Theoretical Coverage.	27.87 m^2
Pot Life (@25˚C)	30 to 35 minutes
Abrasion Resistance. (ASTM D-4060, CS-17)	0.06 gm
Water Absorption. (ASTM C-413)	0.1%
VOC Content (ASTM D-2369)	Stonproof ME7 - 8 g/l Stonkote HT4 - 58 g/l
Cure Rate (@25˚C) for tack-free surface	8 to 10 hours
	24 hours for normal operations

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 MR will cover approximately 27.9 m^2 of surface at a nominal 0.75 to 1 mm.

STORAGE CONDITIONS
Store all components of Stongard MR between 16 to 30˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life for epoxy primers/coatings is 3 years; the shelf life for Stonproof ME7 is 2 years in the original, unopened container.

COLOUR
Stongard MR is available in 12 standard colours. Custom colours are available upon request.

SUBSTRATE
Stongard MR, 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.Note: A larger mortar mixer (e.g. a Baugh 3 Batch Mixer) can be used to mix the urethane mortar. The isocyanate, polyol and pigment should be pre-mixed in a 20 litres pail using a drill and a mixing blade for 90 seconds prior to introduction into the large mortar mixer. The mix time for the aggregate is 90 seconds. The final bag of aggregate added to the bulk mixer must get at least 90 seconds of mix time. The mixed material can be transferred to a wheel barrel and delivered to the workers who will be applying it to the floor. Ensure you have enough manpower to use up more than one batch of material. Any material left in the bucket will react more quickly and become harder to apply.

PRIMING
The use of HT Primer and SL Primer is necessary for al applications of Stongard MR 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 mixing blade.
- See Stongard MR Directions for further details.

APPLYING
- DO NOT attempt to install material if the temperature of Stongard MR components and substrate are not within 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 MR Directions.

NOTES
- Procedures for maintenance of the flooring system during operations are described in the Stonhard Floor Cleaning and Maintenance Guide Brochure.
- Specific information regarding chemical resistance is available in the Stonkote HT4 Product Data sheet.
- Safety Data Sheets for Stongard MR are available online or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard flooring products.
- Requests for technical service or 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.

CE MARKING

The harmonized European Standard EN 13813 “Screed material and floor screeds - Screed materials - Properties and requirements” specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification, they have to be CE-labelled as per Annex ZA., Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011

CE
Stonhard Europe Rue du Travail 9 1400 Nivelles, Belgium 13
DOP – 2013.08.002
EN 13813 SR-AR1.0-B2.0
Synthetic resin flooring system for use in buildings (system as per Product Data Sheet) Reaction to Fire:.....Bfl-S1 Release of corrosive substances: ..... SR Wear resistance: ..... AR1.0 Adhesion strength by pull-off:.....B2.0 Chemical resistance:.....CRG*
*CRG: See Stonhard Chemical Resistance Guide

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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