

PRODUCT DESCRIPTION

Stonproof VM7 is a three-component, liquid applied, urethane membrane for use on vertical applications above or below grade. It is a 100% solids material, which makes it ideal for use in confined areas. Stonproof VM7 is an inter-layer membrane which provides vertical side, positive side waterproofing.

USES, APPLICATIONS

- Mechanical Rooms
- Showers
- Sump Pits
- Trench Drains

PRODUCT ADVANTAGES

- 100% solids
- Excellent bond strength assures superior adhesion
- Seamless and monolithic
- Permanently elastic
- Non-deteriorating
- Easily applied to vertical surfaces
- Factory proportioned packaging ensures consistent, high quality mixing

PACKAGING

Stonproof VM7 is packaged in units for easy handling. Each unit contains:

Stonproof ME7

- 1 carton containing:
- 6 foil bags of isocyanate (curing agent)
- 1 carton containing:
- 6 poly bags of polyol (resin)
- 2 gallon pail of Stonproof VM7 Part C (thixotrope)

COVERAGE

Approximately 27.9 m³ per unit at an application thickness of 635.4 µm.

STORAGE CONDITIONS

Store all components of Stonproof VM7 between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is two years in the original, unopened container.

PHYSICAL CHARACTERISTICS

Tensile Strength (ASTM D-412)	7,6 N/mm ²
Elongation (ASTM D-412)	200%
Hardness (ASTM D-2240, Shore A)	70
Pot Life (@ 21°C)	30 to 35 minutes
Cure Rate (@ 21°C)	8 to 10 hours for tack-free surface 12 to 48 recoat window
VOC Content (ASTM D-2369, Method E)	0.05 lb/gal (6 g/l)

Note:

I. Passes ANSI A I 18.10-1999 required by the



SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials, and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen DG9) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

PRIMING

HT Primer must be applied to the prepared surface before installing Stonproof VM7. Allow the HT Primer to dry before applying Stonproof VM7.

PATCHING

For proper membrane application, all cavities and voids in the concrete should be filled with a patching compound (Stonset PM5 is recommended). Apply Stonset PM5 into the wet HT Primer to ensure that the surface is as smooth as possible.

MIXING

Stonproof VM7 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 to assure the suspension of solids. Add Part A and continue to mix to a uniform consistency for approximately 2 minutes. While continuing to mix at slow speed, slowly add Part C. Once Part C is completely added, mix the material for an additional 2 minutes. Avoid high-speed mixing that will entrain air into the mix. Thorough mixing of the 3 components is required.

Note: Part C is a respiratory irritant and caution should be taken when mixing.

POT LIFE

Stonproof VM7 has a working time of approximately 30 to 35 minutes at 25°C. The working time may vary depending upon ambient and surface conditions.

APPLYING

Stonproof VM7 can be applied at ambient temperatures of 16 to 30°C. This membrane must be applied immediately after mixing the three components. Stonproof VM7 may be applied by using a 3.1 mm x 3.1 mm V-notched trowel and then finishing with a flat rubber squeegee. An application thickness of 635.4 µm is recommended. Any questions regarding the application of Stonproof VM7 should be directed to Stonhard's Technical Service Department.

CURING

The surface of Stonproof VM7 will be tack-free in 8 to 10 hours at 25°C. Ultimate physical characteristics will be achieved in 7 days. Stonproof VM7 has a recoat window of 12 to 48 hours.

RECOMMENDATIONS

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperatures are 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.

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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PRECAUTIONS

- Solvents are recommended for clean up of unreacted 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, safety goggles and impervious gloves is recommended.
- In case of contact, immediately flush the area with copious amounts of clean water for at least 15 minutes. and seek medical attention.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Stonproof VM7 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.