

PRODUCT DESCRIPTION

Stonflex MP7 is a two-component, pourable, polyurethane sealant. It exhibits excellent flexibility with moderate hardness and good chemical resistance to organic acids, alkalis and most solvents.

USES, APPLICATIONS

Stonflex MP7 can be used in conjunction with all flooring systems in a wide range of applications.

- All low to mid-movement joints
- Thermal shock situations
- Interior and exterior applications

PRODUCT ADVANTAGES

- Long-term abrasion and chemical resistance
- Excellent bond strength ensures good adhesion
- Pourable viscosity allows easy installation to horizontal surfaces
- Retains physical properties over a wide-temperature range (-20 to 150°F/-29 to 66°C)
- Factory-proportioned packaging ensures consistent, high-quality and simplified mixing
- Compatible with all Stonhard flooring systems

PACKAGING

Stonflex MP7 is packaged in units for easy handling. Each unit consists of:

- 1 carton containing:
 - 2 poly bags of Isocyanate
 - (2) 1 gallon cans of Polyol

COVERAGE

Approximately 350 cu. in./5,736 cu. cm per unit.

The following is a representative coverage chart with values stated in linear feet/unit to help determine coverage needs:

Depth (in)	Width (in)	Linear Feet/Unit
1/4"	1/4"	467
1/4"	3/8"	311
3/8"	3/8"	207
1/4"	1/2"	233
3/8"	1/2"	155
1/2"	1/2"	117
3/8"	3/4"	104
1/2"	1"	58
1/2"	1-1/4"	47
1/2"	1-1/2"	39

STORAGE CONDITIONS

Store both components of Stonflex MP7 between 60 to 85°F/16 to 29°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is 2 years in the original, unopened container.

COLOR

Stonflex MP7 is available in standard colors that correspond to all Stonhard flooring colors. Custom colors are also available.

SURFACE PREPARATION

The sealant should be adhered to a sound, uncontaminated and dry substrate. The surface must be free of any foreign materials such as paint, oil, wax, mastic and loose aggregate. Metal surfaces must be free of rust, corrosion, oil, lacquer, grease, etc. Do not apply over asphalt impregnated surfaces. To remove any contaminants, Stonkleen TD9 is recommended. After scrubbing, flush thoroughly with clean water. It is recommended that the edges of all joints be taped before the application proceeds.

PRIMING

After proper surface preparation, Stonflex MP7 will attain adhesion to most surfaces without the use of primer.

PHYSICAL CHARACTERISTICS

Coverage.....	350 cu. in./5,736 cu. cm per unit
Working Time.....	40 minutes (@ 77°F/25°C)
Cure Rate.....	12 hours for tack-free surface (@ 77°F/25°C) 24 hours for normal operations
Hardness, Shore A.....	65 (ASTM D-2240)
Tensile Strength.....	250 psi (ASTM C-307)
Percent Elongation.....	450% (ASTM D-638)
Joint Movement Capability.....	+/- 12.5% (TT-S-00227E)
Specification	Stonflex MP7 meets the requirements of a general purpose sealant

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual joint sealant, including binder and filler, were used as test specimens.

BACKING MATERIALS

In deep-jointed areas, the sealant thickness should be controlled through the installation of a polyurethane foam rod or polyethylene backer rod. Diameter of the backer rod stock should be one grade larger than the joint width to ensure compression of the backer rod when inserted. Care should be taken to ensure that the backer rod is not punctured. Where joint design or depth of joint will not permit the use of joint backing, adhesive-backed polyethylene bond breaker tape must be installed. These materials prevent three-sided adhesion which allows Stonflex MP7 to perform to specification. Proper joint dimensions allow for a maximum depth equal to half the joint width.

TAPING

Adjacent areas to the joint should be masked for neatness. Remove all masking tape immediately after tooling is complete.

MIXING

Stonflex MP7 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 2 to 5 gallon Jiffy Mixer. Pour contents of Part B into a mixing container and pre-mix to ensure the suspension of solids. Add Part A and continue to mix to a uniform consistency for a period of approximately 2 minutes. Avoid high-speed mixing that will entrain air into the mix. Thorough mixing of the two components is essential.

APPLYING

Stonflex MP7 sealant can be applied at ambient temperatures of 60 to 85°F/16 to 29°C and humidity below 80%. This sealant must be applied immediately after mixing. Pour the mixed material directly into the joint. Stonflex MP7 is self-leveling and will seek its own level but tooling is necessary to ensure complete edge contact and a completely smooth surface. Use a joint finishing tool.

CURING

The surface of Stonflex MP7 will be tack-free in 12 hours at 77°F/25°C. The area will be ready for light traffic in 24 hours. Ultimate physical characteristics will be achieved in 14 days.

SURFACE TREATMENT

Stonflex Surface Treatment is used to preserve aesthetics over the long-term by reducing dirt pick-up by the Stonflex sealants. This surfactant provides a glossy, dense surface that is resilient, but will not harbor dust, dirt or debris, rendering the joint as easy to clean as the rest of the floor. Stonflex Surface Treatment should be utilized in all applications where Stonflex MP7 will be exposed after the floor installation is completed, especially with Stonlux, Stonblend, and Stonshield systems. One unit contains six 8-ounce jars of Surface Treatment, which is sufficient for use on approximately 2,000 linear feet of 1/4 in. wide joints. The Surface Treatment should be misted onto the surface of the sealant using a spray bottle immediately after all masking has been removed. Questions on the proper use of Surface Treatment should be directed to Stonhard's Technical Service Department.

ACCELERATOR

In low-temperature applications (35 to 55°F/2 to 13°C), Stonflex MP7/MN7 Accelerator is used to aid in curing. The Accelerator (Product #6574D0) is packaged in small glass vials, two of which must be ordered for each unit of MP7/MN7. The Accelerator is added to the polyol and mixed for 60 seconds at room temperature before the joints are to be filled. This material, as well as the isocyanate, must be moved into the cooler area and allowed to come down to temperature before mixing and applying. Once all components have dropped in temperature, the isocyanate is added and mixed for two minutes. Consult Stonhard's Technical Service Department for instruction on proper use of the accelerator.

Note: Depending on the temperature of the area where the material will be used, it may take several hours for the components to cool sufficiently once the accelerator has been added to the polyol. With the addition of the accelerator, working time is significantly reduced depending on the installation conditions and the temperature of the material. Ensure enough manpower is available to install the MP7/MN7 successfully.

RECOMMENDATIONS

- Minimum ambient and surface temperatures are 60°F/16°C at the time of application.
- Apply only on clean, sound, properly prepared substrate.
- Application and curing times are dependent upon ambient and surface conditions.
- Do not use water or steam in the vicinity of the application. Moisture can seriously affect the working time and properties of the material.

PRECAUTIONS

- Both the polyol and isocyanate are skin and eye irritants – avoid contact. The use of safety glasses and impervious gloves is required.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Safety Data Sheets for Stonflex MP7 are available online at www.stonhard.com under Tech Info or upon request.
- A staff of technical service engineers is available to assist in application or 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.

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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