



SYMENT™ SL

CEMENTITIOUS UNDERLAYMENTS FOR FLOOR FINISHES

SYMENT SL Self Leveling Underlayment

Product Description:

Advanced Moisture Control's SYMENT SL is a self-leveling, highly flowable, polymer modified cementitious underlayment for floor covering systems.

Designed with today's fast-track construction methods in mind, SYMENT SL can be applied over concrete and other substrates and allow light foot traffic back on the job site typically within 2 to 3 hours.

Ideal for slabs that are uneven, rough, gouged by years of use, or where a very smooth, level surface is required. SYMENT SL produces a compressive strength of over 4200 PSI and yet is highly cost effective for a polymer modified cementitious material.

SYMENT SL cementitious underlayment produces a flat, smooth and durable floor surface finish that can be easily poured or pumped.

SYMENT SL may be used over a variety of other surfaces than concrete, including plywood, metal, ceramic and other substrates or where total encapsulation is desired. SYMENT SL may also be used in outdoor applications.

The SYMENT SL compound is a single-component system that may be installed as thin as 1/8 of an inch, up to 2 inches in thickness in a single application. SYMENT SL will not shrink after curing and therefore offers excellent dimensional stability.

SYMENT SL is composed of a special blend of Portland and calcium aluminate compounds with very little (less than 1.5%) gypsum content, yet flows out very smoothly and can be manipulated for up to 10 to 12 minutes (at normal temperature) allowing ample workability.

SYMENT SL is available in either a 120 pound per cubic foot density or in a special lightweight 72 pound per cubic foot formulation where weight loads are critical. Please contact Advanced Moisture Control, Inc. for additional information on product application.

Made in America, packaged in low-cost biodegradable bags, SYMENT SL is an ecologically smart product that contains no protein additives.

SYMENT SL Product Benefits:

- Super consistent curing, even in cold job site conditions.
- High early compressive strength, over 4200 PSI.
- Wide range of thickness, from 1/8 to 2 inches per lift.
- Fast-track use, dries to walking in less than 3 hours.
- Self leveling and super smooth surface needs no prep.
- Longer workability, up to 12 minutes on floor.
- Easy to mix, easy to use. Only water is needed.
- Superior bonding to substrate and with floor adhesives.

SYMENT SL Physical Properties:

- ASTM C-109: Air cured PSI ratings:
 - >1,100 PSI at 4 hours cure.
 - >1,900 PSI at 24 hours cure.
 - >3,000 PSI at 7 days cure.
 - >4,200 PSI at 28 days cure.
- ASTM C-579: Tensile strength:
 - >750 PSI
- ASTM C-580: Flexural strength:
 - >1,000 PSI at 28 days.
- ASTM C-531: Lineal shrinkage:
 - < 0.07% at 28 days.
- ASTM C-191: Setting times at 70 degrees:
 - Initial set: About 1 hour.
 - Final set: About 2 hours.

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SYMENT SL Product General Application Guide:

Before the installation of SYMENT SL, or any kind of product placed on the surface, check for moisture. Excessive slab moisture is detrimental to both cementitious compounds as well as floor coverings and polymer coating materials. Advanced Moisture Control, Inc. recommends using the calcium chloride test and the in-situ relative humidity probe method (ASTM F-1869 and F-2170, respectively) prior to application of any topical product.

Advanced Moisture Control, Inc. manufactures environmentally safe synthetic polymers that guarantee compliance with moisture. Please refer to data sheets on the Vapor-Green series of sealers.

Concrete surfaces must be structurally sound, free of debris and not contaminated by curing compounds, oils, waxes, sealers or other foreign matter that would reduce the tensile strength of the bond of SYMENT SL to the substrate.

Mechanical preparation methods that scabble, scarify, shot-blast (or bead-blast) are acceptable. Diamond grinding is acceptable when Vapor-Green FC is first applied as a primer to seal the slab.

SYMENT TCP (tie coat primer) is a substrate primer that is required prior to SYMENT SL application in order to ensure maximum bond strength. SYMENT TCP is packaged as either a single component or two component system, depending on substrate details. Please refer to the data sheet on SYMENT TCP for specific applications and usage.

SYMENT SL may be used over other surfaces such as plywood, existing ceramic tile floors, old cutback/asbestos residue surfaces and other, sound, existing cement compounds. In all cases check for tensile bonding strength of the underlayment before applying.

Do not use SYMENT SL over existing vinyl floor coverings or gypsum substrates. Do not use SYMENT SL where environmental conditions will not allow proper curing times or where the underlayment can become wet prior to 7 days of curing minimum.

Do not apply SYMENT SL over moving joints (expansion joints) or where substrates can be flexible or are composed of a material that is soft.

SYMENT SL Product General Installation Guide:

For best results, mix SYMENT SL with clean, potable water in a mixing drum employing a heavy-duty mixer. Mixing speed should be at minimum, 700 rpm for about 2 to 3 minutes.

A smoother is recommended to help move SYMENT SL into place more easily, even though the product is entirely self-leveling. A depth-gauge spreader may also be used when thickness must be closely monitored. Thickness can vary from 1/4 to about 2 inches in a single lift. SYMENT SL may also be reasonably sloped to this degree using concrete forms and screeds.

Coverage is approximately 25 square feet per 50 pound bag at 1/4 inch thickness minimum.

Clean up tools and unattended surfaces using water before the SYMENT SL cementitious underlayment initiates cure. After cure, use mechanical means to remove unwanted compound.

Contact Advanced Moisture Control, Inc. for more information about SYMENT SL cementitious underlayments and applications where moisture control of concrete is required.

Advanced Moisture Control, Inc. warrants the SYMENT SL series of underlayments to be free from material and manufacturing defects, and to perform as described when installed by certified applicators following specified application parameters.

When installed together with Vapor-Green FC, the SYMENT SL cementitious underlayment is fully warranted against moisture related failure as well.

When both Vapor-Green concrete sealers and SYMENT brand cementitious underlayments are installed by Advanced Moisture Control's in-house California contractor, the entire floor system is warranted for up to 15 years. Please contact Advanced Moisture Control, Inc. for further information and complete warranty details.


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