



# SYMENT™ SLT

CEMENTITIOUS UNDERLAYMENTS FOR FLOOR FINISHES

## SYMENT SLT *Self Leveling Cement*

### Product Description:

Advanced Moisture Control's SYMENT SLT is a self-leveling mortar for both interior and exterior applications where super high strength is required and may be used for interior or exterior applications, as a wear surface, or as an underlayment for floor covering materials.

SYMENT SLT is a polymer modified, Portland based cement product that may be installed from 1/8 inch in thickness per lift. Aggregates may be added to the mix when used for filling large areas.

SYMENT SLT is a free flowing product that produces a flat, smooth surface ideal for resilient flooring applications where high point loads are a concern. This formulation will achieve over 6,000 PSI and only requires water on the job site for mixing. No additional materials or polymers required.

SYMENT SLT is best applied using a gauge rake or spreader tool that can be easily adjusted for the required thickness. This material is self leveling and does not need a trowel for finishing. The surface will achieve an 85 Shore D hardness and be smooth enough for the direct installation of resilient floors.

Do not apply SYMENT SLT where ambient conditions are colder than 40 degrees F. or warmer than 90 degree F. or where concrete slab moisture vapor emission exceeds 3.0 pound per 1,000 sq.ft./24 hours or 85% relative humidity at 40% slab thickness, per ASTM F-1869 and F-2170, respectively.

SYMENT SLT requires proper profiling of substrates and a primer to ensure proper adhesion to substrates. If applied over existing concrete, profile slab to an ICRI #3 to #6 to provide for adequate mechanical bonding. Profile type requirements can change when used with substrate moisture sealers. Contact Advanced Moisture Control for further information about applications.

SYMENT SLT is available in 50 pound bags which cover about 25 square feet when poured without aggregates at 1/4 inch thickness.

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

### SYMENT SLT Product Benefits:

- High overall compressive strength, over 6,000 PSI.
- From 1/8 to over 1.5 inches with aggregates per lift.
- Fast-track use, dries to walking in less than 3 hours.
- Self leveling and super smooth surface needs no prep.
- Easy to mix, easy to use. Only water is needed.
- Superior bonding to substrate and with floor adhesives.

### SYMENT SLT Physical Properties:

- ASTM C-579: Compressive strength:
  - >2,800 PSI in one day.
  - >4,500 PSI in one week.
  - >6,000 PSI in one month (28 day cure).
- ASTM C-307: Tensile strength:
  - >750 PSI at 28 days.
- ASTM C-580: Flexural strength:
  - >1,500 PSI at 28 days.
- ASTM C-531: Lineal shrinkage:
  - < 0.07% at 28 days.
- Working time: 10 minutes max at 70 degrees.
- Ready for floor covering: 24 hours.

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## SYMENT SLT Product General Application Guide:

Before the installation of SYMENT SLT, 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 SLT to the substrate.

Mechanical preparation methods that scabble, scarify, shot-blast (or bead-blast) are acceptable. Blast profile of #3 to #6 per ICRI is required where direct installations over concrete occur.

SYMENT TCP (tie coat primer) is a substrate primer that is required prior to SYMENT SLT 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 SLT 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 SLT over existing vinyl floor coverings or gypsum substrates. Do not use SYMENT where environmental conditions will not allow proper curing times or where the material can become wet or cold (below 40 degrees F.) prior to 7 days of curing minimum.

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

## SYMENT SLT Product General Installation Guide:

For best results, mix SYMENT SLT with clean, potable water in a mixing drum employing a heavy-duty mixer. Mixing speed should be between 600 and 1,200 rpm for about 2 to 3 minutes. Do not mix more than can be applied in a 10 minute working time.

A pump is recommended on large pours. A gauge rake is also recommended to help move SYMENT SLT into place more easily, even though the product is entirely self-leveling. Thickness can vary from 1/4 to 1.5 inches in a single lift using pea gravel aggregate.

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

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

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

Advanced Moisture Control, Inc. warrants the SYMENT SLT 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 SLT 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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