

# ReVue™-SLM

## Self-Leveling Mortar



**DESCRIPTION:** ReVue-SLM is a modern formula Portland and Aluminate cement based self-leveling underlayment, which is fortified with latex polymer used to level or smooth most properly prepared substrates. Extended working time (30 minutes) allows a more consistent finish by alleviating seams or cold joints, which may occur when using products having less working time. It leaves a finished surface, which can withstand temporary construction traffic that is ideal for most floor covering systems.

**USES:** Ideal for use in the following applications: Excels at leveling large areas. Surfaces such as concrete, well-bonded abraded mortars and ceramic tiles can be prepared for the installation of carpet, resilient floors, wood parquet, slate, ceramic tile, marble, granite or stone veneer floors. Properly prepared exterior grade plywood, cement board, anti-fracture membranes, insulating panels and other approved board underlayments may be covered.

**ADVANTAGES:**

- Long working time—approximately flowable 30 minutes
- Pours up to 1-1/2” thick
- Excellent healing properties—self healing
- Depth may be extended with aggregate
- Withstands construction/renovation traffic
- An economical solution to a smooth level floor
- Aluminate cement promotes better flowability
- No VOC (0 g/L).
- LEED® CREDIT – LEED Green Building Certification Program credits may be available:
  - Indoor Environmental Quality
    - 4.2 Low-Emitting Materials, Paint & Coatings Materials and Resources
      - 4.1-4.2 Recycled Content
      - 5.1 Regional Manufactured Material (if within 500 miles of Cleveland, OH)
      - 5.2 Regional Materials (if within 500 miles of Cleveland, OH)

SYSTEM PROPERTIES	
VOC (ASTM D2369-81)	0 g/L (0.0 lb/gal)
Working Time	Approximately 30 minutes
Set Time	1-2 hours
Hard Dry Time	8-24 hours minimum thickness at 70°F (21°C)
Compressive Strength (ASTM-C109) (28 days)	5000 psi (34.47 MPa)
Flexural Strength (ASTM C78) (28 days)	1200 psi (8.27 MPa)
Tensile Strength	420 psi (2.89 MPa)

APPLICATION CHARACTERISTICS	
Thickness	1/8” to 1-1/2” (3.18 mm to 38 mm)
Coverage Rate per bag mix	47 ft <sup>2</sup> @ 1/8” (4.37 m <sup>2</sup> @ 3.18 mm)
Yield per 50 lb. bag (22.7 kg bag)	0.47 cu ft. at 1/8” thickness

## GENERAL PRODUCT INFORMATION

<b>STORAGE:</b>	Materials should be stored indoors between 50°F (10°C) and 85°F (29°C). Do not allow ReVue-SLM to freeze.
<b>SHELF LIFE:</b>	One year from date of manufacture.
<b>PACKAGING OPTIONS / PART NUMBERS:</b>	<b>ReVue-SLM</b> 9015657 (Pallet of 50 - 50 lb. (22.7 kg) double wall bags) 9015656 (1 50 lb. (22.7 kg) double-wall bag) <b>NOTE:</b> <i>Mix with exactly 5 quarts (4.75 liters) of potable water. DO NOT OVER WATER.</i>
<b>LIMITATIONS:</b>	<b>DO NOT USE:</b> <ol style="list-style-type: none"><li>Where either the surface or air temperature falls below 50°F (10°C) or above 85°F (29°C) within 72 hours after installation.</li><li>When finished floor is subject to freeze (32°F or 0°C) any time within 7 days.</li><li>Where hydrostatic pressure is present or moisture emissions exceeds level permitted for an installed floor covering.</li><li>Over particle board, presswood, masonite, chipboard, Luaun, or similar dimensionally unstable materials or any substrate not well bonded or free of movement.</li><li>Over metal or other gypsum floor patches and materials, petroleum or solvent residue or spills, or other contaminants.</li></ol>
<b>COLOR:</b>	This product is only available in medium gray.

**IMPORTANT: READ AND FOLLOW ALL PRECAUTIONS AND INSTRUCTIONS BEFORE PROCEEDING.**

**PLEASE SEE SAFETY DATA SHEET (SDS) FOR HANDLING PROCEDURES.**

**USE PRODUCT AS DIRECTED.**

**KEEP OUT OF THE REACH OF CHILDREN.**

## PRELIMINARY FLOOR INSPECTIONS

**CHECK THE TEMPERATURE:** Floor temperature and materials need to be between 50-85°F (10-29° C). **NOTE:** *Higher temperature application will yield shorter work times.*

**CHECK THE CONCRETE:** Concrete must be structurally sound. Tennant assumes no liability for substrate defects. If you suspect the concrete has been sealed or coated, call Tennant Company tech support for further instructions.

**CHECK FOR MOISTURE:** Concrete must be 28 days old before application of this material. Concrete moisture testing must occur. Calcium chloride testing or in-situ relative humidity testing is recommended. Readings must be below 3 pounds per 1,000 ft<sup>2</sup> (1.5 kg per 92.9m<sup>2</sup>) over a 24-hour period on the calcium chloride test or below 75% relative internal concrete humidity. Test methods can be purchased at [www.astm.org](http://www.astm.org), see ASTM F1869 or F2170, respectively or follow manufacturer's instructions. If moisture issues are present, the use of Eco-MVS may be a consideration; see appropriate System Guide and/or call Tennant Company Technical Support for further instructions.

## APPLICATION EQUIPMENT

<ul style="list-style-type: none"><li>Protective clothing</li><li>Mixing barrel</li></ul>	<ul style="list-style-type: none"><li>Porcupine roller</li><li>0.50 inch or larger, heavy-duty drill fitted with a mixing prop or Jiffy blade</li></ul>
<ul style="list-style-type: none"><li>Gauge rake</li></ul>	

**ASSEMBLE EQUIPMENT:** Due to the limited pot life of the material, all application equipment, etc. should be ready for immediate use. (Clean roller with tape to remove any residual lint.)

**CLEANUP:** Use water to clean ReVue-SLM from tools and equipment. Once it is dry it will need to be removed mechanically. It is important to periodically clean tools.

## SURFACE PREPARATION

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For best performance and to maintain guarantee, Eco-MPE™ or other Tennant epoxy must be used on all surfaces. (Use of other primers voids all warranties.) All supporting surfaces shall be structurally sound, solid and stable. They shall be free of dust, oil, grease, paint, tar or other contaminants that may act as a bond breaker. Application over textured surfaces will give the best bond. Concrete that has been steel troweled should be scarified or bead blasted to give a suitable bonding surface. A CSP (concrete surface profile) of at least three is recommended.

A test patch for adhesion should be performed if the installer is in doubt. Before starting installation, establish the level around the area to be filled with a transit, level or laser device. Mark a "do not exceed" level around room or area perimeter by snapping a line or marking a minimum level by setting coated nails or screws just below the level to be achieved.

Subsurface must be essentially watertight, as ReVue-SLM is extremely flowable. Make sure any holes, cracks, etc. that would permit material through to a lower level are patched or filled with Eco-MPE or other Tennant epoxy prior to priming.

## APPLICATION – PRIMER – ECO-MPE

**COVERAGE RATE** will depend upon coating thickness. Much of this will soak into porous concrete. A gallon (3.78 litres) of Eco-MPE will cover: 535 ft<sup>2</sup> (49.7 m<sup>2</sup>) @ 3 mils (0.08 mm) wet/dry film, 321 ft<sup>2</sup> (29.8 m<sup>2</sup>) @ 5 mils (0.13 mm) wet/dry film.

**PREMIX PART A** using a Jiffy® mixer blade and slow speed drill. (This is required for both 3-gallon (11.34 litres) and full-fill 5-gallon (18.9 litres) units.) For full-fill 5's (18.9 litres), pour out 2 gallons (7.56 litres) into a measuring container. Then, pour the measured Part A into a mixing pail.

**ADD ECO-MPE PART B TO PART A (3 GALLONS / 11.34 LITRES TOTAL MIX).** For full-fill 5's (18.9 litres), pour out 1 gallon (3.78 litres) Part B into a measuring container that is separate from the one used with the Part A. Then, add the measured Part B to the Part A already in the mixing pail. **POTLIFE:** *Mix only enough material which can be applied within the work time (time between the addition of Part B to Part A and the completion of all application actions). Check the following chart for work times at various temperatures. For smaller quantities, use 2 parts PART A to 1 part PART B by volume.*

**APPROXIMATE WORK TIME (minutes) - °F (°C)**

<u>65 (18.3)</u>	<u>70 (21.1)</u>	<u>75 (23.9)</u>	<u>80 (26.7)</u>	<u>90 (32.2)</u>
40	30	25	20	15

**MIX FOR 2 MINUTES** using a Jiffy® mixer blade and slow speed drill. (Failure to do so could result in lower/diminished coating properties.)

**IMMEDIATELY POUR ALL OF THE MIXED MATERIAL** onto the floor in a single bead.

**PUSH THE FLAT SQUEEGEE** at an even speed with sufficient down pressure to apply the thinnest coat.

**START THE SECOND AND REMAINING PASSES** by pushing material parallel to the first stroke. Hold the bead of material near the center of the bar. **NOTE:** *Eco-MPE applied thin may "bridge" holes and cracks momentarily before soaking in--make sure the previously squeegeed area is overlapped (halfway).* **NOTE:** *The use of spiked shoes will allow freedom of movement on the wet floor.*

**FULL BROADCAST SAND** into the wet epoxy. Wait to coat until the epoxy is at least tacky. **NOTE:** *ReVue-SLM will not stick to epoxy, so it needs to be completely covered with sand.*

## APPLICATION - REVUE-SLM

**COVERAGE RATE:** Coverage rate will depend upon application thickness. A one bag mix will nominally cover (finished floor): ReVue-SLM: 47 ft<sup>2</sup> @ 1/8" (4.37 m<sup>2</sup> @ 3.18 mm)

**MIX EACH 50 POUND (22.7 Kg) BAG OF REVUE-SLM with exactly 5 quarts (4.75 liters) of potable water. DO NOT OVER WATER.** Mix two bags at a time. Add ReVue-SLM to the water in the barrel at a steady rate while mixing with a drill and paddle. Mixing for 3-4 minutes should achieve a lump-free mix. **NOTE:** *Four or five bags can be mixed at one time in a mortar mixer (not concrete mixer).*

**WORKING TIME:** *Approximately 30 minutes at 72°F (22.2°C).*

**POUR THE MIXED MATERIAL** on the prepared area to be leveled. Spread out using a gauged spreader tool set to the desired depth. Use porcupine roller to disperse air bubbles. Repeat mixing and pouring until installation is complete. Use smoother for touch-ups. To avoid low spots between pours, pour into leading edge of previous pour before initial set and spread.

**PUMP APPLICATION:** For specific pump methods and installation, contact Tennant Technical Field Support for recommendations. Generally ReVue-SLM is pumped through a hose to the application site. The applicator lays down a succession of 3-6 inch (7.6-15 cm) ribbons of material pumping into the leading edge of the preceding section. Depending on the pump used, 10,000-50,000 Ft.2 (900-4500 M2) at 0.25 inches (0.6 cm) can be placed per day. Use within 20 minutes of mixing. For best results ambient and surface temperatures should be between 50° - 90°F (10°-32°C).

**SET TIME OF MATERIAL** is 45 minutes. Stay off floor until set.

**ALLOW MATERIAL TO CURE 8-24 hours** before applying floor covering.

## APPLICATION OF ADDITIONAL COATINGS

The repair mortar needs to be mechanically prepped, or coatings will not adhere well. The repair mortar needs to cure >12 hours before it will be hard enough; this will vary with cure conditions.

## TECHNICAL SUPPORT

For any preparation or application questions, please call Tennant technical support at 800-228-4943, option 4 (US & Canada), 800-832-8935 (International).

## DISPOSAL

Dispose of all excess material, packaging and other waste in accordance with federal, state and local regulations.

## MAINTENANCE GUIDELINES

**Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).**

**Care:** Proper maintenance will increase the life and help maintain the appearance of your new Tennant floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish.

**Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.**

**Detergent:** Tennant has a full range of detergents--general purpose to heavy duty--for your cleaning needs. For assistance in determining which detergent is right for your facility or for additional technical information call: 800-228-4943, option 4 (US & Canada), 800-832-8935 (International).

**Caution:** Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface. Do not drop heavy or pointed items on the floor as this may causing chipping or concrete popouts in the case of a weak cap. Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

**Repair:** Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

This warranty applies to all Specialty Surface Coatings, with the following exceptions: Eco-Hard-N-Seal™, Eco-EDP™ (Electrostatic Dissipative Primer), Eco-EDE™ (Electrostatic Dissipative Epoxy), and SDS™ (Static Dissipative System). These products have a separate warranty policy.

Tennant Company warrants its Specialty Surface Coatings to be free from defective manufacture, improper formulation, and defective ingredients. Warranty covers replacement of materials only.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

In no event shall Tennant or Seller be liable for any incidental, consequential, or special damages arising out of the use of Tennant Specialty Surface Coatings. **THE ONLY REMEDY OF THE USER OR BUYER, AND THE ONLY LIABILITY OF TENNANT AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES, OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE) SHALL BE REPLACEMENT OF THE PRODUCT OR, AT THE ELECTION OF TENNANT OR SELLER, RETURN OF THE PURCHASE PRICE.**

***No representative of Tennant has authority to give any other warranty or assume other liability.*** The presence of a Tennant employee during the application of Tennant's Specialty Surface Coatings does not extend or alter the warranty or limitations in any manner whatsoever.