

**SONOSHIELD®**

**HLM 5000®**

**Liquid cold-applied elastomeric waterproofing membrane system**

**FEATURES**

- Standard and high-build systems
- Waterproofs concrete
- Elastomeric
- Wide service temperature range
- Chemical resistant
- Seamless cold-applied membrane
- Asphalt-modified polyurethane
- May be applied to green concrete with appropriate primer

**BENEFITS**

- Specification versatility and extended warranty
- Protects structure from water penetration
- Permits expansion and contraction
- Suitable for all climates
- Resists bacterial attack, and many acids, alkalis, and salts
- Eliminates lapping, seaming, and pre-cutting
- No hot-melt equipment required
- Ideal for fast track projects

**WHERE TO USE**

**HLM 5000®**

- Above grade between two-course concrete and within cavity walls
- Exterior below grade on masonry, concrete, and incidental metal
- Parking garages
- Plaza decks and malls
- Fountains and pools
- Balconies and planters
- Bridges and highways
- Below-grade slabs
- Walls and culverts
- Sea walls, dams and reservoirs
- Concrete tanks
- Exterior plywood

**How to Apply HLM 5000®**

**Surface Preparation**

1) For best results, all concrete deck surfaces should be lightly steel troweled to a flat, uniform surface. A light broom finish is acceptable. New concrete must be properly water cured at least 14 days. Membrane curing compounds must be mechanically removed. For extremely porous block, a parge coat of Sonoblock may be required, or prime with a coat of HLM 500 diluted up to 25% with Sonneborn reducer 990. Apply Sonoblock at the rate of approximately 400 sq. ft per bag for the parge coat. Allow to cure a minimum of 7 days before applying HLM 5000.

2) **Prestripping:** Before applying the final membrane, all joints, cracks, and openings around protrusions must be sealed by caulking or pre-stripping ( a preliminary coating of HLM 5000 applied with a trowel or stiff bristle brush). Allow to dry overnight before applying final membrane. When the final membrane is applied, the overall thickness over joints and cracks, at coves, and around penetrations should be approximately 100 wet mils on the standard system.

3) **Static joints and cracks:** Joints and cracks less than 1/16" should be filled by prestripping. Apply material so it both fills and overlaps the joint or crack to a width of 4" on each side.

4) **Working or expansion joints:** All joints over 1/8" must be sealed with Sonolastic sealant. Any **working joint** less than 1/8" should be routed to a minimum of 1/8" and filled with a Sonolastic sealant. Prevent the waterproofing membrane from adhering to the joint sealant, which could cause sealant or membrane failure, by applying a coat of wax or teflon tape over the cure sealant and then prestripping.

5) **Metal:** All metal must be wire brushed or sandblasted to bright metal. Prime with a quality rust-inhibiting metal primer and Sonneborn Primer 733 or 766 before application of HLM 5000.

2) For horizontal applications, empty contents of pail and spread immediately to ensure workability. Best results are obtained by marking off 125 sq. ft. areas and evenly spreading the contents of a 5 gallon unit with a rubber-edged notched squeegee. Repeat the above procedure until the entire surface is covered.

3) For vertical applications, apply by trowel, roller, or spray at the rate of 25 sq. ft. per gallon. Best results are obtained by marking off 125 sq. ft. and evenly applying the contents of a 5 gallon pail.

4) Verify the applied thickness with a wet mil gauge as the work progresses.

**Curing**

Appreciable properties develop within 24-48 hours at 75°F and 50% relative humidity. HLM 5000 should be protected from traffic during curing.

**Application**

A test application is always recommended before proceeding with entire application.

**Standard System**

1) Select the grade of HLM 5000 that best meets individual job requirements. Use HLM 5000 T for trowel application, HLM 5000 S for spray application, HLM 5000 R for roller application, or HLM 5000 SL for squeegee application.

**Drainage and Protection**

For protection during backfill and where hydrostatic pressure is anticipated, use the appropriate Sonoshield DBS Drain Board System