S-9000 CRACK ISOLATION/WATERPROOF LIQUID MEMBRANE

PRODUCT DESCRIPTION:

S-9000 is an easy to apply liquid membrane which can be used for either crack isolation or waterproofing. S-9000 meets or exceeds the requirements of ANSI A118.10 for load bearing, bonded, waterproof membranes for thin-set ceramic tile and dimensional stone installations. S-9000 can be used vertically, horizontally, interior or exterior. S-9000 consists of a liquid polymer binder and a fiber mesh reinforcing fabric. It is easy to apply with a paint roller or brush. After proper installation and curing, ceramic tile can be installed over S-9000 with a Summitville latex modified mortar or epoxy mortar. The S-9000 when properly applied and cured, only adds about 20 mils to the thickness of the floor installation. S-9000 is rated for Extra Heavy Traffic per ASTM C627/TCA. S-9000 is formulated with a special color indicator which lets the installer know when the system is cured and ready to re-coat or apply tile. In the liquid stage the product is light pink and is brick red in the cured state. S-9000 will bond to concrete, plywood, CBU, gypsum board, clean tile and stone surfaces. S-9000 contains no organic solvents or harsh fumes and is safe and non-flammable.

USES:

WATERPROOFING – S-9000 can be used in both commercial and residential applications of:

- Interior or exterior use
- All wet areas
- Bathrooms and showers
- Kitchens
- Countertops
- Steam rooms, spas and hot tubs
- Laundry rooms
- Fountains and water displays

CRACK ISOLATION MEMBRANE

- Interior or exterior use
- Wherever hairline cracking in substrate occurs
- For use over shrinkage and other non-structural cracks up to 3/32"
- Malls and lobbies
- Slab on grade commercial and residential
- Exterior grade plywood and CBU joints
- Concrete floors and underlayments

LIMITATIONS:

S-9000 is not intended to be a chemical-resistant membrane. S-9000 is not recommended to replace expansion joints or for use over structural movement cracks. Surface temperatures must be above 45°F, and maintained above 45°F for 24 hours after installation. S-9000 is not intended as a wearing surface. S-9000 must be covered by properly installed ceramic tile or other load bearing material before use. Not recommended for use over plywood in exterior areas or interior wet areas. Not for use where there is negative hydrostatic pressure. S-9000 liquid should be protected from freezing in storage or in transit.

INSTALLATION:

Pre-cut the reinforcing fabric allowing 2” (5 cm) for overlap at ends and sides. Extend fabric 6” (15 cm) through door openings. Roll up the fabric so that each piece can be placed when ready.

Reinforce joints. Spread a layer of waterproofing liquid at joints and cracks. Imbed a 6” (15 cm) wide strip of reinforcing fabric into the liquid. Spread a coat of liquid over the fabric to seal it.

Flash coves. Spread a layer of S-9000 liquid in coves. Imbed a 6” (15 cm) wide strip of reinforcing fabric and allow 4” (10 cm) of the fabric to be flashed up walls. Spread a coat of liquid over the fabric to seal it. Flash the fabric and waterproofing liquid into any drains and around all projections.

ANTI-FRACTURE MEMBRANE:

Crack treatment. Clean and fill all cracks greater than 1/16" (1.5mm) with a scratch coat of S-2000 latex Portland cement mortar and allow to cure. Spread a layer of S-9000 waterproofing liquid on crack. Imbed a 6" (15 cm) strip of reinforcing fabric into the liquid. Spread a coat of liquid over the fabric to seal it.

Use a paint roller or brush to apply a liberal coat of S-9000 liquid to the floor or wall slightly wider than the fabric width. Include joints and coves which have been previously reinforced. While the surface is still wet, unroll a pre-cut piece of fabric into the liquid. Use a brush or the flat side of a steel trowel to imbed the fabric and smooth out any wrinkles. As the fabric is imbedded, the liquid must bleed through.

Seal the fabric. Immediately apply a liberal coat of liquid to completely cover the fabric. Lap fabric 2" (5 cm) at seams. Allow to dry. S-9000 contains special indicator pigments that change from pink when wet to brick red when dry. Initial coats dry in 2 to 3 hours at 70°F and 50% RH. Cooler temperatures or high humidity will require longer cure times. Make a final application of liquid to the entire surface. The final coat will dry in 2 to 3 hours at 70°F and 50% RH. Cooler temperatures or high humidity will require longer cure time. The S-9000 will change from pink when wet to brick red when dry.

Install tile with Summitville's S-1000, S-1100, S-2000, S-777/800 or S-777/810 Latex Thin Set Mortars or S-120, S-300, S-400, S-500, S-4500 or S-5000 epoxy adhesives. Ceramic tile and other finishes may be installed directly over the membrane as soon as the last coat is fully cured, 12 hrs. minimum.

Flood test critical installations (such as docks, fountains, showers). Allow membrane to cure fully, 7 days at 70°F (21°C). Cold weather installations will require a longer cure time. Flood test installation for 24-48 hours before setting tile to insure no water penetration.

EXPANSION AND CONTROL JOINTS WITH WATERPROOFING:

Summitville's S-9000 is not intended to bridge or alter joints in substrate which experience dynamic movement such as expansion, isolation, and construction joints. The integrity and alignment of expansion and isolation joints must be carried through the entire tile installation. Existing joints in concrete sub floors must be carried through the waterproof membrane by tucking fabric and membrane into joint then continue joint through setting bed and surfacing material. All expansion joints shall conform to architectural details.

Expansion joints shall be installed where tile/paver abuts restraining surfaces such as perimeter walls, curbs, columns, wall corners, etc., and directly over cold joints and control joints in structural surfaces and shall conform to architectural details. Interior installations shall have expansion joints spaced a maximum of 24' x 24' (7 m x 7 m). Exterior areas shall have expansion joints spaced a maximum of 16' x 16' (4.8 m x 4.8 m). Expansion joints

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shall be raked or cut through the setting bed to the membrane tucked into joint in supporting slab or structure.

TECHNICAL DATA: Physical Properties of Cured Membrane:

Service temperature	-20°F to 280°F
Fungus and mold resist	Does not support growth
Seam strength (ASTM D-751)	25 lb./inch
Breaking strength (ASTM C-752)	>200 PSI
Dimensional stability (ASTM D1204)	<0.5%
Waterproof (ASTM D-4068 Annex A2)	PASS
Elongation (ASTM D-751)	60%
Shear Strength (ASTM C-482)	
7 day	130 PSI
4 week	130 PSI
12 week	130 PSI
Water immersion	
7 day	80 PSI
100 day	

Chemical Resistance: (90 day immersion)

10% HCL solution	recommended
3% NaOH solution	intermittent
Brine solution	recommended
Saturated sugar solution	recommended
Calcium chloride	recommended
MEK	not recommended
Milk	recommended
Beer	recommended
Urine	recommended

PACKAGING AND APPROXIMATE COVERING:

Available in 1 gallon units 37.5 - 41.6 sq. ft., 6 gallon units 225 to 250 sq. ft., 54 gallon units 2025-2250 sq. ft.

COLOR: #998 red only.

SPECIFICATIONS:

Material: A polymer liquid applied crack isolation/waterproof membrane shall be S-9000 as manufactured by Summitville Tiles, Inc., Summitville, OH. The material shall meet or exceed the requirements of ANSI A118.10.
Color: Color shall be #998 red.

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MADE IN USA
MEMBER: TILE COUNCIL OF AMERICA INC.