

# LEVEL MAGIC LIGHTWEIGHT

## PUMPABLE SELF-LEVELING UNDERLAYMENT

### DESCRIPTION

LEVEL MAGIC LIGHTWEIGHT is a cement-based, self-leveling, high strength underlayment designed for leveling floors without adding the weight of traditional cementitious leveling products. LEVEL MAGIC LIGHTWEIGHT can be featheredged and has properties similar to that of concrete, but at a much lower load weight. LEVEL MAGIC LIGHTWEIGHT eliminates the need for trowelling. It requires the addition of only potable water to achieve a fluid consistency and produces a smooth, level and hard surface after curing. LEVEL MAGIC LIGHTWEIGHT can be applied in multiple lifts with each lift being no greater than 1" (2.5 cm).

### PRIMARY APPLICATIONS

- Repair, fill, or level surfaces in new construction or restoration
- Underlayment for structures not designed for much additional load prior to installation of floor coverings

### FEATURES/BENEFITS

- Can receive floor coverings within 24 hours of installation
- Compatible with commonly used flooring adhesives

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following results were developed under laboratory conditions @ 75°F (24°C):

PHYSICAL PROPERTY	TEST METHOD	RESULT
Self-Healing Time	ASTM C 191	10 to 15 minutes
Final Set Time	ASTM C 191	approx. 1 to 3 hours
Compressive Strength	ASTM C 109	7 days: 3,200 psi (22 MPa) 28 days: 4,000 psi (27 MPa)
Unit Weight	-	80 lb/ft <sup>3</sup> (1280 kg/m <sup>3</sup> )
Flammability	ASTM E 84	Flame Spread: 0 Fuel Contribution: 0 Smoke Development: 0

### PACKAGING

LEVEL MAGIC LIGHTWEIGHT is packaged in 25 lb (11.3 kg) polylined bags

### SHELF LIFE

1 year in original, unopened package

### COVERAGE/YIELD

One 25 lb (11.3 kg) bag of LEVEL MAGIC LIGHTWEIGHT will yield approximately 0.42 ft<sup>3</sup> (0.012 m<sup>3</sup>) of mixed material. TAMMSWELD is used as the bonding agent for LEVEL MAGIC LIGHTWEIGHT. TAMMSWELD will cover approximately 250 to 300 ft<sup>2</sup>/gal (6.1 to 7.3 m<sup>2</sup>/L).



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## DIRECTIONS FOR USE

**Surface Preparation:** Surface must be dry, structurally sound, clean, free of dust, dirt, wax, oil, grease, mastic, latex compounds, adhesives, paint, gypsum-based products, form releases, curing/sealing compounds and other contaminants. Deeply contaminated substrates must be abraded to a clean and sound surface. Repair large cracks and holes with TAMMSPATCH II or other suitable repair mortar. Porous surfaces should be primed with TAMMSWELD.

Wood Surfaces must be structurally sound and thoroughly cleaned to remove shellac, varnish, paint and other contaminants. Wood floors must be fully braced and nailed to provide a stable, non-flexible surface. Use wire mesh as an artificial key for fills over wood. Apply TAMMSWELD as a primer to the wood surface.

**Surface Priming:** Porous concrete surfaces should be primed with TAMMSWELD. Concrete surfaces prepared after removal of cutbacks and nonporous surfaces may be primed with a water based primer such as DURAPRIME WB. A test patch to evaluate substrate/primer/LEVEL MAGIC LIGHTWEIGHT adhesion should be installed and approved. Wood/Plywood surfaces should be primed using TAMMSWELD. LEVEL MAGIC LIGHTWEIGHT requires 9 pints (4.3 L) of water per 25 lb (11.3 kg) bag. Use power drill with a “jiffy” type mixer to mix small quantities. For larger applications use a paddle type mortar mixer or a standard concrete mixer.

**Application Techniques:** Pump or hand pour LEVEL MAGIC LIGHTWEIGHT on to primed surface. Move it into approximate position with an underlayment spreader, and allow the material to seek its own level. Place LEVEL MAGIC LIGHTWEIGHT soon after mixing. During cure, protect the surface from direct sunlight and winds to prevent rapid hydration.

## CLEAN-UP

Clean mixing and application equipment with water immediately following use. Remove splatter or spills with water before material sets. LEVEL MAGIC LIGHTWEIGHT contains cementitious materials, and if allowed to dry, removal becomes extremely difficult.

## PRECAUTIONS/LIMITATIONS

- New concrete must be fully cured for 28 days.
- Joints or cracks in movement must be detailed through the LEVEL MAGIC LIGHTWEIGHT to prevent cracking.
- Do not overwater, overmix, or retemper LEVEL MAGIC LIGHTWEIGHT.
- Do not add cement, lime, gypsum, plaster, bonding agents, or other materials except specified aggregates.
- Clean mixer after each batch to avoid material build up.
- Do not mix or apply LEVEL MAGIC LIGHTWEIGHT when temperatures are below or expected to fall below 40°F (4°C) or above 90°F (32°C) for at least 24 hours after application.
- Do not apply LEVEL MAGIC LIGHTWEIGHT over frozen or frost filled surfaces.
- Not recommended over particle board, gypsum, asphalt, or very porous surfaces.
- Do not apply LEVEL MAGIC LIGHTWEIGHT over very warm surfaces such as radiant heated floors or over boiler rooms.
- Test applications are recommended.
- In all cases, consult the Material Safety Data Sheet before use.

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