



Self Leveling Mortar

PRODUCT DESCRIPTION

Self Leveling Mortar is a poured-in-place cement based nonstructural floor underlayment that self-levels and cures to create flat, hard surfaces on interior floors before installation of floor covering.

It is used to level floors, correct construction errors, or as a follow-up to rough-screed projects. Typical applications include commercial, industrial, and residential projects on new construction or restoration over concrete flatwork, nonmoving wood floors, flooring with cutback resin, and other firm porous and nonporous surfaces.

ADVANTAGES

With our unique mix design and strict Quality Assurance tests and processes, **Self Leveling Mortar** has the following advantages:

- Self-Levels for easy smooth installations
- Highly fluid and pourable reducing installation times
- Remains workable for more than 30 minutes with minor agitation.
- Not gypsum based
- Single component – Requires only the precise amount of water
- Rapid Curing – Ready for service in 24 hours

MULTIPLE USES

- Levels rough concrete surfaces
- Under tile, carpeting, and hardwood floors
- Commercial and Residential structures
- Office Complexes
- Over Cast-in-Place and precast floors
- Where quick turnaround is needed

SURFACE PREPARATION

All surfaces must be sound and nonmoving. Before installation all dirt, oil, grease, carpet adhesives, asphalt, paint, curing membranes, latex compounds or other loose material and contaminants must be completely removed. Concrete surfaces must be fully cured a minimum of 28 days, the surface of hard-troweled or burnished concrete must be opened by mechanical abrasion. Concrete should not be acid etched, since the acid weakens the surface and reduces the bond of the primer to the concrete. Failure to remove all contaminants and coatings that impede the bond of the primer to the surface of the sub-floor will cause loss of adherence and reduced

durability. Do not use **Self Leveling Mortar** on painted, sealed or polished surfaces. Contact Ecológica Carmelo Inc., for specific application instructions.

MIXING INSTRUCTIONS

1. Add the **Self Leveling Mortar** to the water (not water to material). Mix 3.25 quarts of potable water to a 50 lb bag of material.
2. Mix with high-shearing action for at least 3 minutes, until a smooth, fluid, uniform and lump-free consistency is reached.
3. Additional water must not be added during mixing. The presence of whitish lather on the surface indicates over watering. If this happens, discard the batch and reduce water slightly in the next batch. Excessive water will cause segregation.
4. Pour the product over the primed substrate to desired thickness. Thickness shall be at least 1/8" (3mm) and not greater than 4" (101.6 mm).

PLACING

It is recommended that placing should be in lanes 15 feet in width formed using foam tape or another suitable forming material. Place in a continuous operation by pouring back and forth within the width of the formed area. It is important that this be done continuously to achieve proper merging of the material. DO NOT exceed 10-15 minutes in placing material. Crew, equipment, and material should be of such a size to continuously place in 10-15 minutes. Do not allow contact with water during the first 24 hours of curing. After 24 hours, shrinkage hairline cracks can develop, but these are not structural failures; rather, they are inherent characteristics of the material.

Application of **Self Leveling Mortar** can be made more efficient and easier by using self-leveling type pumps (contact Carmelo Technical Service for recommendations)

TECHNICAL DATA

(before mixing)

Physical State:	Powder
Color:	Gray, Beige
Shelf Life:	1 year in original bag, in dry, covered place.

(after mixing)

Mixing Ratio:	3.25 qt water for each 50 lbs bag.
Density:	137 lbs/ft ³
Flowing Time at 72°F:	30 – 45 minutes

Time required before installation of floor covering: 48 hours

Compressive Strength (ASTM C109):

1 day:	4,000 psi (27,6 MPa)
7 days:	7,500 psi (51,7 MPa)
28 days:	>11,000 psi (75,8 MPa)

Chloride Ion Permeability (ASTM C1202): 250 Coulombs**Volume Change (ASTM C157, Dry Cure):**

-0.09% at 28 days

Approximate Coverage per Thickness for a 50 lbs bag

1/8" (3,2 mm)	40 sq. ft (3,7 m ²)
1/4" (6,3 mm)	20 sq. ft (1,9 m ²)
1/2" (12,7 mm)	10 sq. ft (0,93 m ²)

Packaging

50 lbs. bag

SAFETY PRECAUTIONS

- CAUTION: Contains Portland cement and sand. Can cause irritation.
- Keep out of reach of children.
- Do not take internally.
- Avoid contact with skin.
- Avoid prolonged contact with clothing.
- If splashed in eyes, wash repeatedly with clean water and call physician.
- DO NOT wear contact lenses when working with this product.
- If swallowed, call physician.
- Use of a dust respirator, safety goggles, and rubber gloves are recommended.