

SELF-LEVELER 4000



SELF-LEVELER 4000 is a single-component, self-leveling, floor resurfacer and underlayment which can be poured or pumped over concrete, terrazzo, ceramic tile and wood flooring from a feather-edge up to 1" in a single pour. Areas to be resurfaced must be primed with Bond-All.

- Completely self-leveling
- Interior or exterior use
- Just add water
- Polymer modified
- May be poured or pumped
- Can be applied up to 1" in a single pour
- High compressive and flexural strengths
- Water resistant
- Provides dramatic savings in time and labor over conventional underlayments
- An excellent underlayment for tile, vinyl, carpet, etc.

Resurfacing Mortar	Pour or pump from feather-edge up to 1"
Packaging	50 lb bag (49 /pallet)
Coverage per 50 lb bag	1/8" = 48 ft ² 1/4" = 24 ft ² 1/2" = 12 ft ²
Substrate & Ambient Room Temperature	50°F to 85°F during application and must be maintained for 72 hours after installation
Mixing per 50 lb bag	5 to 5-1/2 quarts of water
Working Time	15 minutes at 70°F
Set Time	4-8 hours at 70°F
Color	Gray



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www.umaco.com

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USES and ADVANTAGES

- Can be used to resurface concrete, terrazzo, ceramic tile, stone and exterior-grade plywood
- An excellent underlayment for carpeting, vinyl, ceramic tile, quarry tile and wood flooring
- Completely self-leveling
- Interior or exterior use
- Ready to use, just add water
- May be poured or pumped
- Can be applied from a feather-edge up to 1" in a single pour
- High compressive & flexural strengths
- Water resistant
- Provides dramatic savings in time and labor over conventional underlayments

SURFACE PREPARATION

Concrete

Concrete substrates must be structurally sound, clean, fully cured and free of any hydrostatic pressure. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, paint, sealers or any other foreign material which might effect the bond.

SEE WARNING ON BACK PAGE REGARDING PAINT REMOVAL.

Concrete surfaces must be mechanically profiled and prepared by shotblasting, sandblasting, scarifying, diamond-grinding or other engineer approved methods. The concrete must have a surface profile of CSP 3 to 5. Holes, cracks and deep depressions must be filled to existing floor level with Umaco Universal 1023. All existing expansion and control joints in the concrete must be extended through the underlayment. All perimeter openings must be sealed using an acrylic caulking compound to prevent leakage making sure Self-Leveler 4000 will be retained to a height equal to or greater than the finished floor elevation.

Plywood Subflooring

Plywood subflooring should be of a design and thickness so as to maintain a substrate of deflection not to exceed 1/360 of the span including live and dead load. Plywood subfloors must consist of two layers of exterior-grade, CDX plywood at a minimum thickness of 5/8" per layer to equal a total thickness of at least 1-1/4". Plywood subfloors must be clean, dust free, rigid and securely fastened with the smooth side facing up. The adjacent edges of the plywood sheets should not be more than 1/32" out of plane. Fill plywood joints using an acrylic caulking compound to prevent Self-Leveler 4000 from pouring through. Installing properly fastened, corrosion resistant, expanded metal lath (meeting the requirements of ASTM C847) on top of the primed surface (before the underlayment application) will provide better performance.

MOISTURE VAPOR TRANSMISSION

Concrete moisture testing must be performed before the application of Self-Leveler 4000. For substrates with an MVER exceeding 3 lbs. per 1000 ft² per 24 hours, using a calcium chloride test (reference ASTM F1869), a suitable Umaco moisture-reduction barrier must be applied. Contact a Umaco representative for more information.

PRIMING: UMACO BOND-ALL

Prime the entire area with Umaco Bond-All. Apply a second coat of Bond-All to absorbent or porous concrete. Wood floors must be primed with two coats of Bond-All.

Prior to application, test in a small area to ensure compatibility, bond strength and performance of the complete flooring system.

MIXING

Add 50 pounds of Self-Leveler 4000 to approximately 5 to 5-1/2 quarts of water. **Do not reverse this process by adding water to the material.** Do not over water as this will cause separation, reduction of strength and shrinkage of the cured Self-Leveler 4000. When mixing small amounts, the use of a paddle mixer with a high torque, low speed (400-600 RPM) hand drill is recommended. For large jobs, an

ordinary barrel mixer connected to a pump and hose is recommended. Mix material for 2 to 3 minutes until the mixture is smooth and free of lumps. Do not overmix and do not move the mixer up and down while mixing since this could trap air and cause pin-holing during application and curing process. Do not mix more material that can be placed in 15 minutes. Ensure that subsequent mixes are ready to enable continuous pouring until the entire area is surfaced.

TEMPERATURE

Substrate and ambient room temperatures must be maintained between 50°F and 85°F during application and maintained for 72 hours after installation. Before installation, close doors and windows and turn off HVAC systems to prevent drafts during application and until the pour has cured. Protect areas from direct sunlight.

APPLICATION

Quickly pour or pump Self-Leveler 4000 onto the surface in a parallel ribbon pattern starting at one end of the room. If a wet edge cannot be maintained, reduce the width of the pour. Material should be placed in one continuous pour, achieving the required thickness in one application. A gauge rake may be used to spread the material and assist in gauging it to the desired depth. After achieving desired depth, use a smoother to obtain an even surface.

Second Layer

A second layer of Self-Leveler 4000 may be applied after 24 hours providing the first layer has fully dried, is dust-free, clean and properly primed with Umaco Bond-All. Ensure that the temperatures remain the same as they were during the initial pour.

CURING

Self-Leveler 4000 is self curing under normal conditions. Do not use a damp curing method or curing and sealing compounds.

COVERAGE PER 50# BAG

1/8"	48 ft ²
1/4"	24 ft ²
1/2"	12 ft ²
3/4"	9 ft ²
1"	6 ft ²

PRECAUTIONS

- Substrate and ambient room temperatures must be maintained between 50°F and 85°F during application and maintained for 72 hours after installation
- Concrete moisture testing must be performed before the application of Self-Leveler 4000.
- For substrates with an MVER exceeding 3 lbs. per 1000 ft² per 24 hours, using a calcium chloride test (reference ASTM F1869), a suitable Umaco moisture-reduction barrier must be applied
- Do not install Self-Leveler 4000 over particleboard, chipboard, Masonite, Lauan, oriented strand board (OSB), metal, asbestos, gypsum-based patching materials or any other non-dimensionally stable materials
- Do not apply if rain, snow or any other precipitation is expected within 24 hours
- All control and expansion joints must be carried through
- Always adhere to local building codes and regulations when using this product
- Review Safety Data Sheet before using this product

TEST DATA

Compressive Strength (ASTM C-109)

1 day.....	3,720 psi
3 days.....	4,140 psi
7 days.....	4,775 psi
28 days.....	7,015 psi

Flexural Strength (ASTM C-348)

28 days.....	1050 psi
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Flowing Time:

15 minutes

Working Time:

30 minutes

Setting Time:

Walk on material after 4-8 hours

Non-Moisture Sensitive Coverings:

Drying time before installation of non-moisture sensitive floor coverings at 70° at 1" thickness is 24 hours

Moisture Sensitive Coverings:

Drying time before installation of moisture sensitive floor coverings at 70° at 1" thickness is 2-3 days

WARNING!

Do not take internally. If ingested, **do not** induce vomiting and get prompt medical attention. Contains Portland cement and Silica sand. May be irritating to the eyes and nose. Prolonged inhalation may cause lung injury. Avoid eye contact or prolonged contact with skin. Wash hands thoroughly with water after handling. In case of eye contact, flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician immediately. Dust masks, eye protection and gloves are recommended when using this product. Read Safety Data Sheet (SDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

KEEP OUT OF THE REACH OF CHILDREN!

WARNING! If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.**

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto www.epa.gov/lead. Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

For technical assistance call 978-453-8881

www.umaco.com

LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.



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