



# ChemMasters®

# Level-Top

Economical Self-Leveling  
Cement-Based Underlayment

SPECIALTY CONSTRUCTION PRODUCTS

## P R O D U C T D A T A

### DESCRIPTION

**Level-Top** is a polymer modified, cement based self-leveling floor underlayment designed for interior structural floors scheduled to receive carpet, resilient flooring, ceramic tile or other finished floor coverings.

### USES

- Level existing floors before the application of floor coverings
- Smooth rough surfaces on new poured-in-place or precast concrete floors
- Wearing surface for interior residential, commercial or light duty industrial applications
- Underlayment for resilient floor coverings, VCT, ceramic or quarry tile, hardwood floors

### ADVANTAGES

- Non-shrink with excellent bond and flexural strengths
- Fast setting, accepts ceramic or quarry tile and carpet in one hour, VCT, sheet goods and hardwood in two hours
- Does not contain gypsum, will not dust or powder
- May be placed over concrete, masonry or stable plywood substrates

### Hard Dry Time @ 70 °F(21°C) with 50% R.H.

Light Traffic	1 hour
Accepts Covering*	1 to 2 hours
* Note: Consult floor covering manufacturer prior to placement for allowable moisture specifications	

### Estimating Guide

Each bag covers approximately:  
 55ft<sup>2</sup> at 1/8" (5.1 m<sup>2</sup> at 0.32 cm)  
 27.5ft<sup>2</sup> at 1/4" (2.5 m<sup>2</sup> at 0.64 cm)

### DIRECTIONS

**Substrate Preparation:** Remove unsound concrete, including loose, frozen, broken or carbonated surfaces, curing or sealing compounds or coatings using Blastrac, Porta-Shot or Bartell surface removal equipment. Fill large cracks, holes and voids with ChemMasters **SpeedPatch**, **Featherpath** or **ChemSpeed 75** at least 36 hours prior to **Level-Top** placement. Contraction and control joints must be maintained through the **Level-Top**. Mark their location for later saw cutting.

Ceramic and quarry tile, terrazzo, wood and tile or cutback covered surfaces require special attention. Consult ChemMasters' technical service for recommendations.

**Priming:** Mix **Level-Top Primer** 1:1 by volume with clean, potable water and apply to clean, dry prepared surface with a broom, brush or short napped roller at a rate of 200 ft<sup>2</sup> per gallon (5 m<sup>2</sup>/liter). Apply an even coat removing any puddles. Very porous surfaces may require a second coat of primer once the first coat has dried to fully seal the floor. Allow primer to dry to touch completely. Keep primed surface clean and protected from abrasion. Place **Level-Top** within 48 hours of priming.

### Hand Mixing/Hand Pour

**Tools:** Mixing barrel, gauged spreader, porcupine roller and 1/2 inch, heavy duty drill fitted with a mixing prop or jiffler blade.

### Packaging Product Number

50 lb (22.7kg) bags	56 per pallet	F2215.50
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### TECHNICAL DATA

#### Test Data

Working Time	15 to 20 minutes
ASTM C191 Set Times	Final: 35 minutes
ASTM C109 Compressive Strength	
1 hour	1000 psi (7 MPa)
1 day	3500 psi (24 MPa)
7 days	5000 psi (34 MPa)
28 days	6000 psi (41 MPa)
ASTM C157	
Wet Cure	+0.036%
Dry Cure	-0.011



## ChemMasters®

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**Mixing:** Mix each 50 pound bag of **Level-Top** with exactly 5 quarts of potable water. DO NOT OVER WATER. Mix two bags at a time. Add **Level-Top** to the water in the mixing barrel at a steady rate while mixing with a drill and paddle. Mixing for 2 to 3 minutes should achieve a lump-free mix.

**Pour:** Pour **Level-Top** from mixing barrel onto the area to be leveled. Spread out using gauged spreader tool set to the desired depth. Use spiked roller to disperse air bubbles. Repeat mixing and pouring until installation is complete. Use smoother for touchups. To avoid low spots between pours, pour into leading edge of previous pour before initial set and spread.

Maximum thickness of **Level-Top** in a neat system is 1.50 inches (3.8 cm). From 0.50 to 1.50 inches (1.3 to 3.8 cm), **Level-Top** may be extended with up to 25 pounds (11.3 kg) of coarse sand per bag of **Level-Top**. Extending **Level-Top** will increase the yield, but will severely reduce the self leveling properties of the product. Beyond 1.5 inches (3.8 cm) **Level-Top** must be extended with up to 25 pounds (11.3 kg) of 0.25 to 0.375 inch, clean, SSD pea gravel. Add aggregate extension following initial mixing, and blend until evenly dispersed throughout the batch. The addition of aggregate reduces flow and leaves a rougher surface. Do not add additional water to increase flow.

**Pump Application:** For specific pump methods and installation, contact ChemMasters. **Level-Top** may be pumped through a hose to the application site. Lay down a succession of 3 to 6 inch (8 to 15 cm) ribbons of material pumping into the leading edge of the preceding section. Depending on the pump used, 10,000 to 50,000 square feet (900 to 4,600 m<sup>2</sup>) can be placed per day. Use within 30 minutes of mixing. For best results ambient and surface temperatures should be between 50° to 90°F (10° to 32°C).

## CLEANUP

Before material hardens and sets, clean tools and equipment with warm water.

## LIMITATIONS

- Substrate and ambient temperatures must be a minimum of 50°F (10°C) at time of placement and for the following 24 hours.
- **Level-Top** hardens in 15 to 20 minutes. Prepare only enough for immediate use.
- Do not re-temper.
- Do not apply to frozen or frosted surfaces or over standing or running water.
- Exposure to direct sunlight and draft should be avoided during and shortly after placement of **Level-Top**. Storing bags in direct sunlight will reduce open time for

- Follow standard concrete placement practices in very cold or very hot temperatures.
- Do not place in areas subject to freeze/thaw cycling or to constant moisture

## STORAGE

Store unopened bags in cool, dry area on pallets. Shelf life of properly stored material is one year from date of manufacture.

### Precautions:

**DANGER:** Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled. Precautionary Statements: Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

### This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT PRODUCT & SAFETY DATA SHEETS AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.