



# LEVELDECK-150

## Self-Leveling Calcium Aluminate Cement Based Underlayment

### Description

**LEVELDECK-150** is a self-leveling, non-shrinking, fast cure calcium aluminate based underlayment that is used to eliminate defects and smooth floors that are to receive additional flooring systems. It is receptive to all floor coverings and most adhesive and floor bonding systems. **LEVELDECK-150** can be installed at thicknesses from feather edge to 2 inches and may receive foot traffic after 2 hours. It is to be used for indoor applications only. For areas that require higher builds, **LEVELDECK-150** can be extended with aggregate up to 5 inches.

### Features and Benefits

- ☑ Fast self cure with rapid compressive strength build
- ☑ Single component – Just add water and mix
- ☑ Can be applied at temperatures from 50°F to 95°F
- ☑ 20 minute work time at 75°F
- ☑ Can be hand or mechanically mixed and poured
- ☑ Cost effective treatment for unlevel, damaged floors
- ☑ Provides adhesives protection from alkali decomposition

### Areas of Application

**LEVELDECK-150** is designed to level uneven substrates especially concrete slabs that have been cured for at least 28 days. **LEVELDECK-150** has been used in hospitals, schools, shopping malls, food markets, warehouses, large retail stores, residential construction, and in most environments where a level surface is required. It can be used in conjunction with ENDURIT MVC products that treat new or existing concrete floors with moisture and/or alkaline conditions that are to receive additional flooring systems.

### Product Properties

Set Time:	20 minutes (Initial)	ASTM C 191
	1 hours (Final)	ASTM C 191
Compressive Strength:	4500 psi 1 day	ASTM C 109
	5500 psi 28 day	ASTM C 109
Flexural Strength:	>1100 psi 28 day	ASTM C 348
Tensile Strength:	>570 psi	ASTM C190
Installed Weight:	2.08 lbs, ¼ inch lifts per ft <sup>2</sup>	
Shelf Life:	6 months, when stored in dry, cool environments in unopened packages	

### Surface Preparation

Concrete substrates to receive **LEVELDECK-150** must be structurally sound, stable, absorptive, and meet concrete standards as defined in the American Concrete Institute (ACI) Committee 201 Report “Guide to Durable Concrete”. Surfaces must be free of adhesives, coatings, curing compounds, sealers, efflorescence, dust, grease, oils and any other material that may interfere with adhesion or cure of **LEVELDECK-150**. For best results the building envelope should be enclosed and

environmentally controlled prior to application.

All patching, leveling materials, adhesives, and prior coatings must be removed prior to installing **LEVELDECK-150**.

Shot blast, mill, grind or mechanically prepare the concrete substrate so that it is absorbent. **ACID ETCHING IS NOT PERMITTED**. After the concrete has been profiled the slab must be vacuumed free of all dust, dirt, and debris prior to the application of **LEVELDECK-150**. Expansion joints must be installed according to local building codes or Federal standards.

Concrete surfaces must be primed with LEVELDECK-Primer at least 2 hours before application of **LEVELDECK-150**. If application is not performed within 24 hours an additional coat of LEVELDECK-Primer is required. Refer to the LEVELDECK-Primer product data sheet for more information.

On concrete slabs that have had prior flooring failures, it is strongly recommended that core samples be taken to identify the cause of failure.

### Product Mixing

Add a 4.25 to a maximum of 4.75 quarts of clean cold water into a clean mixing drum. Then slowly add one 50 pound bag of **LEVELDECK-150** while mixing with a paddle mixer at low RPM. Mix for two minutes, the result should be a lump free consistency. For best results mix 2-bag batches at a time.

For machine mix operation, consult the equipment manufacturer for recommendations.

### Application Instructions

Pour mixed **LEVELDECK-150** on the prepared floor and spread smooth using a gauge rake and spiked roller. It is recommended to use two or more mixing drums to apply **LEVELDECK-150**. This is to keep a “wet edge” where the batches of mixed material will meet. The **LEVELDECK-150** will self-level for up to 20 minutes. Using spiked shoes is recommended to eliminate footprints. Protection from freezing is required for a minimum of 5 days.

**LEVELDECK-150** should be installed at temperatures between 50°F to 95°F. Do not over-water, re-temper, or add any additional additives to mix. Do not install over gypsum based surfaces or products. **LEVELDECK-150** is not intended as a final wear surface. Always install a test area to insure suitability for intended use. If applying to concrete substrate, concrete should have 28 days of cure or more.

### Coverage Rates

**LEVELDECK-150** should be installed from ⅛ to 2 inches in thickness.

Each 50 Pound bag will cover:

<u>Spread Rate</u>	<u>Approx.Coverage</u>
⅛ inch	50 ft <sup>2</sup>
¼ inch	25 ft <sup>2</sup>
½ inch	12 ft <sup>2</sup>

## Clean Up

Use water to clean all tools and mixing equipment immediately after use. All cured and uncured material should be removed to avoid getting hardened material in subsequent batches.

## Safety Precautions

Consult the **LEVELDECK-150** material safety data sheet (SDS) for more complete information on product health, safety, and handling.

Avoid skin and eye contact.

**Eye Contact:** Flush immediately with water and consult a physician. Do not rub eyes.

**Skin Contact:** Wash immediately with soap and water.

Contains Portland cement and silica sand, avoid contact with eyes or prolonged exposure to skin. Minimize exposure and avoid breathing dust. The use of safety goggles and gloves is recommended.

## Warranties

*BESSERN* warrants that its product shall be in accordance with the specifications published in the current product data sheet. *BESSERN* will, in the event any of its products fail to meet their published specifications, replace those products proved to be defective.

*BESSERN* shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, *BESSERN's* sole liability hereunder shall not exceed the cost of the defective product originally purchased.

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