



LEVELDECK-FE

Trowelable FEATHER EDGE Cement Based Underlayment

Description

LEVELDECK-FE is a cement based, rapid setting, trowelable underlayment used to smooth subfloors prior to the installation of finished floor covering. It chemically combines with the mix water, avoiding associated installation problems and is compatible with all adhesives approved for use over concrete. **LEVELDECK-FE** has a creamy consistency, exceptional coverage and tenacious bond. **LEVELDECK-FE** allows for the installation of many floor coverings in as little as 15 minutes. It can be applied over properly prepared concrete, wood, cement based Terrazzo, ceramic & Quarry tile, Cutback and non-water soluble adhesive residue, all without priming or the use of an additive.

Features and Benefits

- Bonds to a wide variety of substrates
- Tenacious adhesion
- Accepts many floor coverings in as little as 15 minutes
- Can be re-tempered without the addition of water
- Cost effective treatment for damaged floors
- Environmentally friendly

Areas of Application

LEVELDECK-FE is designed to level uneven substrates especially on transitions where a feather edge is required. **LEVELDECK-FE** 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

Flow Time:	20 minutes (Initial)	ASTM C 191
Set Time:	30 minutes (Final)	ASTM C 191
Compressive Strength:	3500 psi	(ASTM C 109)
Flexural Strength:	1500 psi	(ASTM C 348)
Application Temperature:	50°F – 95°F	
Shelf Life:	6 months-when stored in dry, cool environments in unopened packages	

Surface Preparation

NOTE: **LEVELDECK-FE** is not a vapor barrier. Test per ASTM F-1869 for (MVER) and ASTM F-2170 for (RH). If the readings exceed those of the Coatings, Adhesive or Flooring Manufacturer's product that will be applied, (whichever is stricter) use ENDURIT MVC (Moisture Vapor Control) products prior to using **LEVELDECK-FE**.

All surfaces: Surfaces must be clean, sound, dry, 50°F and free of oil, gypsum compounds, wax, grease, sealers, curing

compounds, urethane, paint, asphalt, loose surface material or any contaminate that will act as a bond breaker. Never use acid or mastic removers on any surface to which an ENDURIT flooring product will be applied.

Concrete: Weak surfaces, must be cleaned down to solid sound concrete by mechanical means such as chipping, shot-blasting, grinding or scarifying.

Non-Porous: Abrade ceramic, quarry tile and cement based terrazzo substrates to a dull finish; remove all dust by mopping and allow to dry completely.

Wood: All wood substrates must be structurally sound L/360. If needed, prepare by sanding down to clean bare wood and secure loose boards with deck screws. Subfloors must be 3/4" Hardwood, untreated, APA Rated, Type 1, exterior grade, plywood.

Adhesive Residue: **LEVELDECK-FE** can be installed over thin (translucent) sound, non-water soluble adhesives that are free of tack and well bonded to the substrate. The adhesive cutback needs to be prepared using the wet scrape method as outlined in the Resilient Floor Covering Institute booklet "Recommended Work Practices for the Removal of Resilient Floor Coverings". Remove all patching materials below the adhesive. If adhesive interaction, migration or staining are a concern install an approved BESSERN self-leveling underlayment.

Priming:

NOTE: Priming is required on extremely smooth and non-porous substrates such as ENDURIT MVC products and must be primed with LEVELDECK-PRIMER A for increased adhesion. Priming is recommended but not required on porous substrates.

Non-porous Concrete: Dilute LEVELDECK-Primer A 1:1 with clean water and apply evenly using a brush, 3/8" nap roller or nylon push broom. Apply a thin coat and work into surface; leave no bare spots or puddles. Broom out puddles that may form while primer is drying (min. 2 hrs, max. 24 hrs).

Non-porous, Wood & Adhesive Residue: Apply one coat of undiluted LEVELDECK-PRIMER A using a 3/8" nap roller. Apply a thin film, leave no puddles or bare spots. Allow primer to dry (min. 2 hrs, max. 24 hrs.).

Metal: Contact your BESSERN Representative for specific priming recommendations.

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

Mix an amount of **LEVELDECK-FE** that can be placed within 15 min. at 70°F. Higher temperatures will shorten working time and cooler temperatures will prolong it. Place approximately 1 Part clean cool water into a container, then add 2 Parts **LEVELDECK-FE** and mix to a lump free consistency. A mixing wand and 1/2" drill will result in a better consistency and save time. Smaller quantities can be mixed by hand.

Water Requirements: 1.7 - 1.8 quarts per 10 lb bag (1 part water to 2 parts powder).

Application Instructions

Use a steel finishing trowel when applying **LEVELDECK-FE** to a properly prepared substrate. Force the material into all voids, there is no minimum thickness required. **LEVELDECK-FE** can be applied from feather edge up to 1/2" in a single lift and to any thickness in small well defined areas. **LEVELDECK-FE** can accept standard floor coverings such as VCT, sheet vinyl, Linoleum and carpeting in as little as 15 minutes or as soon as adhesives can be applied without damaging the surface. When using moisture sensitive adhesives such as urethanes or epoxies wait 16 hours. Do not use **LEVELDECK-FE** to fill expansion joints. Contact a BESSERN technical representative for recommendations on any surface not specifically listed on this Data Sheet.

Embossing Filler: Existing felt-backed embossed residential sheet vinyl must be clean and free of wax, grease, sealer or any other contaminant. The flooring must be solid, have been installed over a suitable substrate and must not show any signs of moisture or alkaline salts. Do not use as an embossing filler over cushion-backed flooring thicker than .080" or over sheet flooring installed using the perimeter bond method. Lightly sand surface to a dull finish but do not sand through the wear layer, remove all dust by mopping and allow surface to dry completely.

When using as an embossing filler, mix 2 Parts **LEVELDECK-FE** to 1 Part undiluted **LEVELDECK-Primer B**. Mix to a creamy consistency using a margin trowel or mixing wand and drill. Apply **LEVELDECK-FE** to the prepared sheet vinyl using a steel finishing trowel in the thinnest possible layer that will fill the existing embossing. If additional smoothing is required, allow the first coat to dry completely (approx. 60 - 90 min) or when a twist on the ball of your foot does not damage the surface. For the second coat, mix the **LEVELDECK-FE** as before but dilute 1 Part **LEVELDECK-Primer B** with 3 Parts water. Allow the underlayment to dry completely. The new surface is considered non-porous, only use an adhesive designated for that application.

Gypsum Underlayment (Gyp-Crete): Thoroughly sand and vacuum the existing gypsum underlayment and apply 2 Coats of **LEVELDECK-Primer A**. Dilute the first coat 1 Part primer to 3 Parts water. Pour out or spray primer liberally and disperse with a soft exploded tip broom allowing it to penetrate. Continually broom primer out to a thin film while drying, leave no puddles or bare spots. Allow the first coat to dry for a minimum of 2 hours.

Dilute the second coat 1 Part primer to 1 Part water and apply a thin coat using an exploded tip broom. Continually broom primer out to a thin film while drying, leave no puddles or bare spots. Allow primer to dry (2 hrs. min. - 24 hrs. max.) before applying **LEVELDECK-FE**.

NOTE: The **LEVELDECK-FE** application will provide a sound surface for flooring to bond but it will not change the integrity of the Gypsum underlayment.

Epoxy Coatings: Abrade and profile sound, epoxy coatings, remove all dust by mopping and allow surface to dry completely. Apply 1 thin coat of **LEVELDECK-Primer A** undiluted (neat) using a 3/8" nap roller. Leave no bare spots or puddles and allow the primer to dry (2 hrs. min. - 24 hrs. max.)

Aluminum, Copper: Must be 100% bonded to substrate. Clean and prepare surface, then apply 1 thin coat of **LEVELDECK-Primer A** neat using a 1/4" nap roller. Leave no bare spots or puddles; allow primer to dry (2 hrs. min. - 24 hrs. max.)

Packaging

10 lb bags.

Coverage Rates

LEVELDECK-FE should be installed from feather edge to 1/2 inches in thickness. It can be applied in any thickness in small defined areas.

Each 10 Pound bag will cover:

<u>Spread Rate</u>	<u>Approx. Coverage</u>
1/8 inch	35 ft ²

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-FE** material safety data sheet (MSDS) 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, 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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The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.



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