

**Aggregate Free
Self-Leveling
Underlayment**

- Dry Density of only 90-100 lb/ft³ and 4,000 psi compressive strength at 28 days.
- Proprietary formulation technology delivers an aggregate free leveling compound, with a smooth, hard, residue-free surface.
- Fast setting, quick application, light trade traffic within hours.
- Ideal for leveling or smoothing out of level, old, or damaged concrete floors in residential and commercial renovation construction.
- Low Prep: In most cases, shot blasting or profiling is not required. Simply clean the substrate, prime with an approved primer and pour.
- Does not require reinforcement over solid, structurally sound substrates.
- Smooth high quality surface is suitable for a wide array of finished floor coverings.

Description and Benefits

AccuLevel® G50 is a lightweight, free flowing, pumpable underlayment for use in renovation as a low-density self-leveling underlayment. Special low-shrinkage proprietary formulation technology developed by Allied Custom Gypsum avoids the addition of sand or other aggregate. The resulting slurry can be poured from 1" to a feather edge without sacrificing surface quality, finishability, or bond quality to solid substrates. At 90-100 lb/ft³, this product removes weight from the structure while still serving as a high strength, economical leveling compound.

AccuLevel® G50 is an engineered blended cement containing polymer modified portland cement and high strength gypsum cement in a balanced formulation that delivers robust performance under a variety of challenging leveling projects. AccuLevel® G50 is resistant to abrasion, stands up well to normal trade traffic, and can be opened to light foot traffic within 4 hours and normal trade traffic within 24 hours. This product can be pumped or barrel mixed, and is installed by a network of licensed contractors.

AccuLevel® G50 exhibits very high dimensional stability and does not require shot blasting or surface profiling in most applications, provided that the substrate meets minimum criteria and intended use of the space does not anticipate high dynamic loads.

Uses

Most leveling applications from 1" to 1/8" thickness. Large areas of less than 1/8" thickness may be best suited for a trowelable patching compound. The high compressive strength is ideal for most residential and commercial renovation projects. AccuLevel® G50 is suitable for use with tile, stone, or floating and glue-down floor covering systems.

Limitations

- Suitable Substrates include fully cured new or existing concrete, plywood, OSB, and other clean structural substrates that meet the minimum L/360 deflection criteria. Over wood substrates or in cases where a bond is not anticipated, reinforcing lath is recommended. Contact an AccuLevel® technical representative where special substrate conditions exist.
- Curing and Drying time before application of floor goods depends on thickness, humidity and ventilation conditions. With proper drying conditions, AccuLevel® G50 poured at a thickness of 0.5" can be covered in 5-7 days. At a thickness of 1.0", AccuLevel® G50 can normally be covered in 14-21 days. Thinner applications can be covered more quickly, while thicker applications will require more extended drying times.
- AccuLevel® G50 is for interior use only and should not be used in areas where extended or repetitive exposure to moisture is anticipated unless protected by a waterproofing system.
- AccuLevel® G50 is intended for above grade applications. In cases where moisture vapor emissions are possible, a moisture vapor barrier is required. Maximum MVER of 5 lb/ 1,000 sf/ 24 hrs by the calcium chloride method, ASTM F-1869. Floor covering manufacturers' recommendations supersede all others.
- For applications other than foot traffic and light rubber wheeled traffic, the substrate must be mechanically profiled to a minimum ICRI CSP 3 to enhance the bond to substrate.
- AccuLevel® G50 should not be used to bridge moving cracks or expansion joints. All joints must be honored through to the substrate.
- AccuLevel® G50 is only intended to be used as an underlayment. It is not a wear surface and is not intended for use as a structural element.

Contact

Contact an AccuLevel® technical representative with any questions or for more details about the use of this or other AccuLevel® products and systems. (800)-624-5963 or visit www.accucrete.com

Preparation

- The interior of the building must be enclosed, protected from sun and wind, and a minimum temperature of 50°F must be maintained during the installation and for a period of seventy-two (72) hours after the installation of the AccuLevel® G50.
- The substrate must be indoors, clean, dust and contaminant free. Any loose or weak material present on substrate must be mechanically removed.
- Prior to pouring AccuLevel® G50 an approved priming system must be used. Please consult an AccuLevel® technical representative on the proper priming system.
- Installations over concrete slabs require the concrete to be properly cured, moisture free and have no efflorescence.
- In cases where foot traffic and light rubber wheeled traffic are anticipated, shot blasting is not required.
- Where moisture vapor conditions exist, test to ensure that the MVER does not exceed 5 lb/ 1,000 ft²/ 24 hrs per ASTM F-1869.



Mixing and Placement

- Wear a NIOSH/OSHA approved dusk mask and/or provide ventilation when mixing the product.
- Add powder to water at a mixing ratio of 3.4-3.75 gallons of water per 80 lb bag. This mix ratio should yield a slump of 9.5-10.5" when using a 2"x4" section of PVC over a smooth plastic or glass sheet.
- Do not extend AccuLevel® G50 with additional sand or aggregate before placement. At thicknesses greater than 1.0", it is permissible to rake the product into a bed of washed, no reactive pea gravel. Drying times must be extended to accommodate the added thickness. Consult an AccuLevel® technical representative for guidance on drying times and conditions under these or other circumstances where drying times or moisture management is of concern.
- If after placement the product is not smooth and lump free, extended mix times with slightly more water (within the specified range) may be required. If separation or floating of the aggregate is observed, reduce the water quantity to a smooth, homogenous, self-leveling consistency.
- A working time of approximately 15 minutes should be anticipated but will vary with temperature, humidity, and mixing consistency.
- Do not attempt to re-temper the mix with water once it begins to thicken.
- Using a gauge rake and underlayment smoothing tool, work the material to the desired thickness and smooth the surface to remove any remaining imperfections.

Curing / Drying

- Do not allow foot traffic until the product is fully hardened, usually within 4 hours of placement.
- AccuLevel® G50 is self-curing and does not require curing compounds, but should be protected from excessive draft for the first 24 hours. After this time, ventilate the area to expedite the curing process and to aid in the removal of excess moisture from the building. In general, a thickness of 1.0" requires 14-21 days to fully cure and dry. These times will vary with humidity, temperature, and ventilation conditions.
- For moisture sensitive floor coverings, test the underlayment prior to installation by the plastic sheet method per ASTM D-4263. If visible signs of moisture are present, then more curing time is required. Do not test AccuLevel® G50 for dryness using the calcium chloride method, ASTM F-1869, as inaccurate results will occur.
- Seal the surface of AccuLevel® G50 with an approved surface sealer prior to installation any cement based adhesives. It may be beneficial to seal the surface prior to installation of other adhered floor covers. Consult an AccuLevel® technical representative for additional details.
- Where cracking may occur, a crack suppression membrane is recommended prior to tile or stone installations. Consult an AccuLevel® technical representative for specific recommendations.

Physical Properties

Color: Grey Powder

Flow properties: Self-Leveling

Water Per bag: 3.4-3.6 US Gal./ 80 lb.

Compressive Strength

(ASTM C109, air cure): 2,500-3,200 (7 day), 4,000-6,000 psi (28 day)

(ASTM C472): 4,000 – 6,000 psi

Wet Density: 110-120 lb/ft³

Dry Density: 90-100 lb/ft³

Yield per 80 lb: 46 ft² at 1/4" thickness

Recommended

Thickness: 1/4" to 1" in a single lift, without an aggregate extension.
Where feather-edge is required, a minimum of 1/8" thickness is recommended to avoid drying before hydration is complete.

ACG Plasterworks® LLC
1550 Double Drive, Norman, OK 73069 toll free: 800.624.5963 www.alliedcustomgypsum.com info@accucrete.com

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