



ALLIED CUSTOM GYPSUM

Submittal Sheet

AccuLevel® G40

Premium Polymer-Modified Self Leveling Gypsum Underlayment

- Unique formulation with enhanced performance characteristics to deliver a dense, smooth, high compressive strength substrate suitable for a wide array of floor coverings.
- Ready for light trade traffic within hours and normal trade traffic within 24 hours.
- Approved for use with hydronic heating systems.
- Ready for floor coverings as soon as 3 days when poured at ½" thickness.
- Pumpable underlayment that can be installed from a minimum of 3/8" thickness, or thinner depending on aggregate size and jobsite conditions, or up to 3" thickness in a single application.
- Mixed on site with approved sands to deliver compressive strengths from 3,500-4,500 psi.
- Self sealing and low porosity formulation enables direct-bonded floor coverings, in many cases without the use of a surface sealer.
- Suitable for sheet goods, VCT, tile and stone, wood, or carpet.
- Fast setting, quick application, means floors are returned to service the following day.
- Ideal for deep fills in concrete 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.

Description

- AccuLevel® G40 is a premium polymer-modified self-leveling underlayment. It delivers a smooth, dense surface that is suitable for an immense array of floor covering options. Special formulation technology reduces the porosity of the surface of the cast underlayment to prevent it from rapidly absorbing moisture from adhesives, thereby eliminating the need of surface sealers in most cases.
- Because AccuLevel® G40 is blended with aggregate on site, it offers a substantial cost savings to conventional pre-sanded underlayments. Installed by a network of licenced constructors, AccuLevel® G40 is the best choice for thick or thin floor leveling projects.

Uses

- AccuLevel® G40 is ideal for light commercial and commercial renovation settings where smooth flat, abuse resistant underlayments are desired. Due to its high compressive strength and exceptional surface quality, AccuLevel G40 is suitable for most critical floor coverings, including engineered wood and sheet goods.
- AccuLevel® G40 can be installed from a minimum of 3/8" thickness, or thinner depending on aggregate size and jobsite conditions, or up to 3" thickness in a single application. Its fast setting and high dimensional stability characteristics enable fast turn around and low surface preparation installations.
- AccuLevel® G40 serves as an efficient thermal mass for hydronic heating systems, with typical installed thickness of 1.5" (3/4" over the top of the hydronic tubing).

Uses and Limitations

- Suitable Substrates include fully cured new or existing concrete. Installations over wood substrates less than 1.5" in thickness may require reinforcing lath. In cases where a bond is not anticipated to the substrate, a minimum thickness of 1.5" must be applied. Consult an AccuLevel® technical representative where special substrate conditions exist.
- AccuLevel® G40 can be substituted for AccuLevel® SD30 in galvanized corrugated steel deck assemblies. Consult design limitations and specifications for AccuLevel® SD30 for technical details and framing requirements.
- Curing and drying time before application of floor goods depends on thickness, humidity and ventilation conditions. At a thickness of 0.5", AccuLevel® can typically be covered in 3 days. At a thickness of 1.5", AccuLevel® G40 can normally be covered with tile in 7-10 days and non porous floor coverings in 15-20 days. Thinner applications can be covered more quickly, while thicker applications will require more extended drying times.
- AccuLevel® G40 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® G40 is intended for use over dry substrates. 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.
- Where high dynamic and point loads are anticipated, such as hospitals and institutional settings, the substrate must be profiled to a minimum ICRI CSP 3 to enhance the bond to substrate, and a 4,000 psi minimum compressive strength is required.
- AccuLevel® G40 should not be used to bridge moving cracks or expansion joints. All joints must be honored through to the substrate.
- AccuLevel® G40 is not a wear surface and is not intended for use as a structural element.
- Finished floor covering manufacturer recommendations supersede all others.
- When used in conjunction with hydronic heating systems, pour AccuLevel® G40 to a minimum thickness of ¾" above the top of the hydronic tubing.

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



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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® G40.
- The substrate must be indoor, clean, dust and contaminant free. Any loose or weak material present on substrate must be mechanically removed.
- Prior to pouring AccuLevel® G40 an approved priming system must be used. 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.
- In cases where the thickness of the pour is at or exceeds 1.5", it is permissible to allow the poured slab to float unbonded to the substrate.
- 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 3.0-4.0 gallons of water and 0.80 - 1.40 ft³ of washed sands (that meet minimum AccuLevel/AccuCrete gradation criteria) per 80 lb bag. This mix ratio should yield a slump of 8-10" when using a 2"x4" section of PVC over a smooth plastic or glass sheet. Higher slumps will affect the final compressive strength, and for this reason the smallest slump possible to achieve the desired surface finish should be employed.
- 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 surface bleed occurs, reduce the water quantity to form 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 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.
- Consult an AccuLevel technical representative for specific recommendations regarding products, scheduling and surface preparations.

Curing

- Do not allow foot traffic until the product is fully hardened, usually within 4 hours of placement.
- AccuLevel® G40 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 1.5" requires 15-20 days to fully cure and dry. These times will vary with humidity, temperature, and ventilation conditions.

Preparation for Floor Coverings

- 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® G40 for dryness using the calcium chloride method, ASTM F-1869, as inaccurate results will occur.
- After the underlayment has dried, remove any loose debris and foreign material. For tile and stone installations, a water proofing and crack isolation membrane is recommended. For portland based adhesives, a floor sealer is recommended. Water-based adhesives will generally not require a floor sealer unless the porosity of the underlayment does not allow sufficient working time. Solvent based, or moisture cured urethanes do not normally require (and are normally not compatible with) a surface sealer. In applications where the floor goods manufacturer differs from these recommendations, the floor goods manufacturers’ recommendations will supersede all others. Consult an AccuLevel® technical representative for additional details.

Physical Properties

- Color: grey powder
- Flow properties: high flow with self-leveling properties
- Water Per bag: 3.0-4.0 US Gal./ 80 lb.
- Sand per bag: 0.80 – 1.40 ft³ of washed mason or concrete sands meeting AccuLevel®/AccuCrete® minimum gradation criteria
- Compressive Strength (ASTM C472): 3,500 – 4,500 psi, depending on mix design, sand gradation, and water content
- Density: 115-125 lb/ ft³
- Recommended Thickness: AccuLevel G40 can be installed from a minimum of 3/8” thickness, or thinner depending on aggregate size and jobsite conditions, or up to 3” thickness in a single application.

UL Designs

G577	G578	G579	G580	G581	G582	J917	J919	J920
J924	J927	J931	J957	J958	J966	J991	J994	K906
L004	L005	L006	L201	L202	L206	L208	L209	L210
L211	L212	L501	L502	L503	L504	L505	L506	L507
L508	L509	L510	L511	L512	L513	L514	L515	L516
L517	L518	L519	L520	L522	L523	L524	L525	L526
L527	L528	L529	L530	L533	L534	L535	L536	L537
L538	L539	L540	L541	L542	L543	L546	L547	L549
L550	L551	L552	L555	L556	L558	L560	L562	L563
L570	L573	L574	L576	L583	L585	L590	L592	L593
L599	M502	M503	M504	M506	M508			

More designs may be obtained. Contact us at info@accucrete.com

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