



AccuLevel™ H40

Cementitious Underlayment

The Ultimate in Floor Leveling Challenges, AccuLevel™ H40

- Fast setting, quick application, light trade traffic within hours.
- Contains innovative hybrid cement technology developed by Allied Custom Gypsum to provide high early strength and a durable smooth surface capable of withstanding construction trade traffic.
- Ideal for out of level, or old, damaged concrete floors in commercial, institutional, and renovation construction.
- Smooth, dense, crack resistant surface.
- No hand troweling required.
- Excellent for both thin and deep applications, from 1/4" to 1 1/2".
- Low-prep formulation-no bead blasting required for pedestrian traffic use.
- Installed by experienced, licensed applicators.

System Description

AccuLevel™ H40 Floor Underlayment System is fast applied, quick setting, polymer-modified hydraulic cement formulated and manufactured by Allied Custom Gypsum Plasterworks, LLC for use in poured in place and pre-cast concrete construction in commercial and institutional buildings. AccuLevel™ H40 underlayment can also be poured over wood subfloors (reinforcing mesh is required to pour over wood subfloors. Please consult your licensed AccuCrete® Applicator for details). When required by your schedule this high strength underlayment can be poured prior to drywall installation (for more information on pouring before drywall consult your licensed AccuCrete® Applicator).

AccuLevel™ H40 is formulated to deliver a compressive strength minimum of 4,500 psi and can achieve as high as 7,000 psi when fully cured.

Product Description

AccuLevel™ H40 is batch mixed on the jobsite with sand and water providing a monolithic, smooth, lightweight surface. At 3/4 of an inch in thickness AccuLevel™ H40 weighs approximately 7.8 pounds per square foot and has a density of approximately 120 to 125 pounds per cubic foot.

System Benefits

AccuLevel™ H40 provides a cost effective, crack resistant, lightweight, fire resistant, floor leveling underlayment in residential, multi-family, commercial, institutional, as well as new and renovation type construction. Designed system provides for a smooth, level, and dense surface suitable for any type of floor covering.

Physical Properties

Compressive Strength Minimum :

4,500 PSI (28 day)

Dry Density :

120-125 lb/ft³

Compressive Strength by ASTM C109, air cure only



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Limitations

- No single application of AccuLevel™ H40 should exceed 1 1/2" in depth. Consult your licensed AccuCrete® Applicator on how to achieve depths greater than 1 1/2".
- Shot blasting is not required for most applications. However, institutional or commercial environments where heavy rolling loads or point loads are anticipated, shot blasting is required to enhance the bond to the substrate.
- For installations on or below grade the concrete must be well drained and concrete moisture or vapor emission must be reduced to less than 5 lb. per 1,000 sq ft. per 24 hours (Calcium Chloride method per ASTM F1869). Floor covering manufacturer requirements supersede when lower.
- AccuLevel™ H40 will not structurally bridge over expansion joints, saw cuts, or structural cracks, which should be allowed to continue through the AccuLevel™ H40. The architect or structural engineer must specify expansion joints, and show their locations in the areas that are to receive hard surface floor goods such as ceramic or marble tile, and hardwood flooring.
- AccuLevel™ H40 should not be used as a wearing surface.
- AccuLevel™ H40 should not be used for exterior applications, but is suitable for use in areas where periodic exposure to moisture is anticipated.

Installation

AccuLevel™ H40 can be poured before the building is fully enclosed. AccuLevel™ H40 is designed to withstand temporary exposure to weather, provided the temperature is above 50°F during and for 48 hours after the installation. AccuLevel™ H40 must be protected from freezing. The subfloor must be clean, dust and contaminant free. Prior to pouring AccuLevel™ H40 an approved priming system must be used. Please consult your licensed AccuCrete® Applicator on the proper priming system. Installations over concrete slabs require the concrete to be properly cured (typically 28 days), moisture free and have no efflorescence prior to the installation of AccuLevel™ H40. All cracks and potential leaks must be sealed or patched with a fast-drying, cement-based patching compound. Plumbing or electrical penetrations should be packed with insulation and sealed. Any loose or weak material present on substrate must be mechanically removed.



ALLIED CUSTOM GYPSUM
Submittal Sheet

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Section 03540: Cementitious Underlayment	Note to Architect	The following are specifications for AccuLevel™ H40 covering a typical installation. For special conditions and other types of applications please consult with your local AccuCrete® representative.
Part 1: General	1.1 Scope	Specify to meet project requirements.
	1.2 Qualifications	All materials, unless otherwise indicated, shall be manufactured by Allied Custom Gypsum Plasterworks, LLC (ACGP) and shall be installed in accordance with its current printed procedures by a manufacturer licensed applicator.
	1.3 Delivery / Storage	All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the project.
	1.4 Conditions	<p>A. Prior to the application, the building envelope must be enclosed (all windows, doors, roofing, and other openings). AccuLevel™ H40 can be poured prior to or after the installation of drywall.</p> <p>B. 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 AccuLevel™ H40.</p>
Part 2: Products	2.1	<p>A. Cementitious Underlayment: Hydraulic Cement: AccuLevel™ H40, 4,500 PSI minimum compressive strength, air cure only, mod. ASTM C109.</p> <p>B. Primer: Manufacturer-approved primer over concrete substrates.</p> <p>C. Sand: Clean, washed sand as per specifications in the AccuCrete® Application Manual.</p> <p>D. Water: Potable water, free of contaminants.</p> <p>E. Sealer: Manufacturer-approved floor sealer.</p>
	2.2 Manufacturer	Allied Custom Gypsum Plasterworks, LLC, 708 24th Ave NW, Norman, OK 73069, 800-624-5963
	2.3 Substitutions	Require approval.
Part 3: Execution	3.1 Preparation	<p>A. Subfloor should be structurally sound. Subfloor must be clean and free of all dust, mud, oil, grease, and any other contaminants prior to pouring the underlayment. Fill any cracks or voids with some type of leak prevention material.</p> <p>B. AccuLevel™ H40 does not require mechanical profiling of substrates over well bonded, structurally sound substrates for pedestrian traffic areas. For heaving rolling loads and high-point loads, concrete substrates must be mechanically profiled. Reference ICRI CSP 3 for acceptable profile height.</p> <p>C. When concrete substrates are at, or below grade, moisture vapor barriers are required. Calcium Chloride tests cannot exceed vapor emission rates of 5 lb/1000ft²/24 hours using the calcium chloride method (ASTM F-1869).</p>



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Part 3: Execution Continues	3.2 Mixing	Add 3.0 to 3.5 gallons of water to one 80 lb. bag of AccuLevel™ H40 and sand not to exceed 1.4 cu. ft. per bag.
	3.3 Application	<p>A. Prime all subfloors prior to the installation of AccuLevel™ H40. Use an approved primer at the recommended application rate.</p> <p>B. Pour AccuLevel™ H40 to a minimum thickness of 3/8" over a concrete or precast substrate, while spreading and finishing to a smooth surface.</p> <p>C. With the exception of authorized joints, spread product in a continuous, monolithic application, taking caution to not pour any wet slurry against any material that has already achieved an initial set.</p> <p>D. General contractor shall provide continuous ventilation and adequate heat as indicated in section 1.4 above, in order to rapidly remove excess moisture from the area of the installation, until the underlayment is dry.</p> <p>E. Under ideal drying conditions, typical drying time is 5 days for installations 1/2" (13mm) in thickness, and 14-21 days for 1 1/2" (38mm) in thickness. Conditions such as high humidity, cool temperatures, or poor ventilation will prolong drying time.</p>
	3.4 Preparation for Installation of Floor Goods	After the underlayment has dried, spray or roll on an approved sealer prior to the installation of a glued down floor covering. In applications where the floor goods manufacturer requires a special adhesive or installation system, the floor goods manufacturers' recommendations will supersede all others. Any damaged floor areas must be repaired prior to the installation of the sealer.
Submittal Approvals		
Project Name: _____		Architect: _____
Contractor: _____		Date: _____

ACG Plasterworks® LLC
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Notice: Allied Custom Gypsum Plasterworks, LLC ("ACGP") warrants that the AccuLevel™ product will conform to the written specifications stated by ACGP at the time of its shipment by ACGP. ACGP's liability is limited to replacement of defective material, F.O.B. factory. Customer must promptly notify ACGP of any alleged defects. Replacement of defective material will be made only upon ACGP's inspection of the material. Because ACGP does not install AccuLevel™, it cannot be held responsible for the results of any installation. CUSTOMER DISCLAIMS AND ACGP MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THIS WARRANTY INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CUSTOMER WAIVES AND ACGP SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES UNDER ANY THEORY OF LAW. NO REPRESENTATIVE OF ACGP HAS THE AUTHORITY TO MAKE ANY REPRESENTATIONS OR PROMISES EXCEPT AS STATED HEREIN. IN NO EVENT WILL ACGP'S LIABILITY HEREUNDER EXCEED THE PURCHASE PRICE OF THE DEFECTIVE MATERIAL. MSDS Available upon request from ACG Plasterworks, LLC AccuCrete®, AccuRadiant® and AccuQuiet® are registered trademarks of ACG Plasterworks, LLC