

AE LEVEL

Advanced Elements | Level

AE Level is an eco-friendly, fast-setting, non-shrink silicate self-leveling flooring product for industrial and decorative applications. It is designed for high-traffic environments where chemical resistance, durability, and seamless finishes are required. It can also be combined with pigments, aggregates, recycled glass, fibers, shells, and other materials to create colorful, anti-slip decorative surfaces. Made from inorganic, non-toxic, VOC-free raw materials, it can be applied from 3–50 mm in one self-leveling layer.

BENEFITS

- NO VOC's
- UV Stable
- LOW Carbon Emissions
- Easy Application
- Withstands 1.5 bar water pressure
- Any thickness possible in 1 layer
- Adheres to any smooth surface
- Compliant with anti-static requirements

SLIP RESISTANCE	DIN 51130 R10 - R13
ABRASION RESISTANCE	AR0.5
DENSITY	125 lb/ft ³
CHEMICAL RESISTANCE	pH4 - 14
HEAT RESISTANCE	-40°F to 930°F
FIRE RATING	EN 13501 -1 A2
COLOR (<i>Original</i>)	Grey

MIXING & APPLICATION

- Measure water: Use about 4.5 L clean water per 25 kg bag; keep water ratio between 17–20%.
- Start mixing: Slowly add AE Level binder to water while mixing on low speed for 30–60 seconds.
- High-speed mix: Mix at ≥600 RPM for 2 minutes, scraping the drum and paddle as needed.
- Rest mixture: Stop mixing and let it sit for 1–2 minutes to activate and release air.
- Final mix: Mix again at medium speed for 1 minute, then allow up to 1 minute aeration before pouring.
- Add aggregates if needed: Add sand or aggregates with the binder during initial mixing; premix sand or pigment for large jobs.
- Spread material: Pour and spread evenly, maintaining wet edges between batches to avoid cold joints.
- Set thickness: Use a level spreader or gauge rake; use a notched trowel for edges and tight areas.
- Spike roll: Roll in crisscross directions to release air and level the surface before the material begins to set.

STORAGE & SHELF LIFE

- Packed in 55 lb paper bag.
- Shelf life of 12 months from the date of manufacture, which is printed on the bag label.
- Store in a cool, dry area with stable or controlled temperature (not < 32°F, preferably 50°F - 77°F). Place bags at least 12 inches above the floor. Seal the opening bags immediately after taking a portion for use.

SAFETY

- Always carefully read the application instructions for the above products before applying. Before adding any additional material shall always test and do trials before applying on site. As materials in different locations often have different properties that can make a difference on the quality of the final product.
- Other applications not covered by this documentation may be added or available upon request.
- Read all product documents before use. Ensure aggregates are clean and dry, and perform site trials before application. Workability, drying time, color, and finish quality may vary by materials, environment, batch, and applicator skill. Use trained applicators, protect outdoor applications from rapid drying, and consider polymers, fibers, or mesh for added performance.
- Basic tools and equipment are adjustable high-speed batch mixer, mortar mixer, screed box, spike shoes, spike roller, straight-edge bar, hand shovel, hand trowel, level spreader.
- All application machines and tools shall be cleaned immediately with clean water after use. Wastewater and spilled materials need to be collected and handled properly to ensure safety for the environment and people.

**KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.
BEFORE USING THIS PRODUCT PLEASE READ THE SAFETY DATA SHEET IN ITS ENTIRETY!**

The content of this technical datasheet corresponds to the latest developments and our experiences. All information is based on ideal conditions and therefore may not be completely accurate in actual construction. Due to different types of materials, surfaces and actual construction conditions, guarantees are not given for applications. We are not liable for this information or any verbal statements. The only exception is when we can be blamed for willful negligence in liability. In that case, the customer must prove that he has fully and promptly transmitted all necessary information to us for examination and resolution. Any other details relating to the construction of our products must be confirmed in writing by us. The customer must check the suitability of the product for the intended application and purpose. We reserve the right to change the specifications of products due to ongoing development. In addition, our general terms and conditions are valid. This product documentation supersedes all previous technical data on this product.