


MICRO

Advanced Elements | Micro

AE Micro is an eco-friendly, non-shrink mineral silicate binder for premium wall and floor finishes. It creates seamless, durable surfaces suitable for light traffic and can be combined with pigments, sand, flakes, fibers, metal powders, and other materials for decorative textures and colors. Made from inorganic, non-toxic, VOC-free raw materials, it can be applied at 0.5–3 mm in a single coat.

BENEFITS

- NO VOC's
- Environmentally Friendly, Non-Toxic
- Low Carbon Footprint
- NOT Moisture Sensitive
- Fast Curing, Quick Turanaround
- Does not create ASR, no efflorescence.
- NO Shrinkage, Swelling, Cracking
- Resistant to extreme temperatures
- Salt and Chemical Resistance
- Not affected by UV

COLOR	Light Grey	Off-White
FINISH APPEARANCE	Dull	Bright
POWDER FINENESS	Fine	Fine
COMPRESSIVE STRENGTH	2,466 PSI	2,901 PSI
FLEXURAL STRENGTH	725 PSI	725 PSI
APPLICATION THICKNESS	0.02–0.12 in	0.02–0.12 in

MIXING & APPLICATION

- Add 1.65 gallons of clean water per 55 lb bag into the mixing container.
- Start mixing with a high-speed mixer at 600 RPM.
- Slowly add AE Micro powder while mixing.
- Mix intensely for 4–6 minutes until uniform.
- Mix only what can be applied within 30 minutes.
- Adjust water as needed in hot/dry conditions or when adding sand.
- If adding sand, do not exceed a 1:1 sand-to-binder ratio.

PIGMENT MORTAR

- Use pigments suitable for alkaline pH 10–12 environments.
- Synthetic inorganic oxide pigments are recommended for UV stability and colorfastness.
- Premix powder or granular pigments into the binder.
- Blend liquid pigments into the mixing water before adding binder.
- Test pigment dosage before use, as higher loading may affect workability and require more water.

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 - 86°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.