NANO SILICA
FINISH

Advanced Elements | Nano Silica Finishing Aid

AE Finish is a ready-to-use colloidal nano silica finishing aid applied to the surface of fresh concrete during placement and finishing. It is designed to restore surface workability without the use of water. Where water dilutes the cement paste at the surface and weakens the finished wear layer, AE Finish delivers reactive nano silica to the surface, where it is designed to support pozzolanic reaction and leave a denser, harder wear surface. AE Finish leaves no film and requires no removal before grinding, polishing, densifying, or coating.

BENEFITS

- Colloidal nano silica technology
- Designed to restore surface workability without adding water
- Does not increase the water-to-cement ratio at the surface
- Designed to reduce equipment drag and finisher fatigue
- Designed to support pozzolanic reaction at the wear surface
- Designed to help hold surface moisture in drying conditions
- Leaves no film — no removal step before grinding, polishing, or coating
- Ready to use — no dilution or mixing required
- Zero VOC · Non-hazardous · Non-flammable

PROPERTIES

BASE	Colloidal nano silica
FORM	Ready-to-use liquid
VOC	Zero
COVERAGE	500 – 1,000 sq ft per gal
DILUTION	None — do not dilute
SHELF LIFE	18 months

APPLICATION

Step 1: Apply using a low-pressure pump sprayer or power sprayer fitted with a fine-fog tip. Do not apply by roller, broom, or bucket.

Step 2: Hold the spray tip 6–24 in. (15–60 cm) above the surface and move side to side to achieve even distribution.

Step 3: Apply as a **fine fog, not a stream**. Do not allow the product to puddle or pond on the surface.

Step 4: AE Finish may be applied at any point during placement and finishing, and may be reapplied as site conditions require.

Step 5: For floors scheduled to be ground and polished, apply immediately ahead of the bull float and float in without delay.

Step 6: Avoid breathing spray mist. Where ventilation is limited or overspray is heavy, use a suitable particulate respirator. Finish using standard practice — no rinsing, stripping, or removal is required.

Coverage. 500–1,000 sq ft per gallon (12–25 m²/L). Coverage varies with surface texture, porosity, mix design, and ambient conditions. Open, pan-floated, and broom-finished surfaces consume more product than hard-troweled surfaces — estimate at the lower end of the range for these finishes.

Compatibility. AE Finish is compatible with conventional concrete mix designs and admixtures, and with subsequent grinding, polishing, densifying, staining, and coating systems. Trial applications are recommended to confirm coverage and appearance for your specific materials and conditions.

PACKAGING

SIZE	GALLONS	LITERS
Pail	5	19
Drum	55	209
Tote	275	1,041

STORAGE & SHELF LIFE

- Do not break the seal until the product is ready for use. Keep unused product in its original container.
- Store in a well-ventilated, cool, dry location between 41°F and 95°F (5°C – 35°C).
- Shelf life is 18 months from the date of manufacture in the original, unopened container.
- PROTECT FROM FREEZING. This product is perishable if frozen. Protect from direct sunlight and UV exposure.

SAFETY

- Always read the application instructions and the Safety Data Sheet in full before use.
- Always conduct site trials before full application. Materials, substrates, and site conditions vary by location and can affect the final result.
- Wear appropriate personal protective equipment, including eye protection and gloves. Avoid contact with eyes and prolonged contact with skin.
- Performance, working time, and finish quality may vary with mix design, ambient conditions, batch, and applicator skill.
- Clean all application equipment and tools immediately with clean water after use.
- Collect and handle wastewater and spilled material properly to protect people and the environment.
- Applications not covered by this documentation may be available upon request.

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.