



Reduce cement and replace or reduce SCM like fly ash, slag, or silica fume in ready mix concrete.

E5® Liquid Fly Ash integral admixture is a silicate-free, proprietary blend of Nano Silica that serves as a pozzolan addition. The admixture is employed in conjunction with an adjusted quantity of coarse and fine aggregates to maintain the concrete properties and volume of fly ash in the mix design.

E5® Liquid Fly Ash sustains strength requirements, improves workability, and decreases permeability, efflorescence and air entrainment issues commonly associated with fly ash. The result is a more consistent high-quality, user-friendly concrete regardless of geography, season, or application.

E5® Liquid Fly Ash is engineered to exact standards to deliver predictable results every mix, unlike recycled fly ash materials which vary greatly in availability, cost, composition, and quality. **E5® Liquid Fly Ash** improves air quality and worker safety in the ready-mix plant, compared with inconsistent and more difficult to employ CCR (Coal Combustion Residue) alternatives. **E5® Nano Silica** increases pozzolanic reactivity to form permanent, insoluble bonds in concrete.

Carbon Reduction Advantage

Reducing overall cementitious material content significantly reduces the carbon footprint of construction projects.

For every 100 yards poured with E5® Liquid Fly Ash, up to 10,000 Pounds of CO2 is eliminated from our environment.*

*Based on a 10% average reduction in cement

Features & Benefits

- Cement and SCM replacement or addition.*
- Reduces calcium hydroxide.
- Creates consistent pozzolanic reactions.
- Improves pumpability, workability and finishability.
- Reduces evaporation even in low humidity, high wind, and direct sunlight conditions.
- Enhances the rheology of the concrete mix.
- When used in conjunction with **E5® Internal Cure®**
 - * Reduce concrete permeability by 50%-90% (PRAH)
 - * Self-seal cracks over the life of the concrete (PRAH)

*E5® Liquid Fly Ash has been tested by a 3rd party lab and qualifies for SCM replacement or reduction.

Compatibility

E5® Liquid Fly Ash is highly effective on its own or in combination with other E5® Admixtures. If using multiple admixtures, it is critical to add each one individually to the concrete mix to ensure fullest efficacy and to provide desired results.

Dosage

For all concrete applications, recommended dosage is 8 - 20 fl. oz. per 100 lbs. (0.52-2.61 L/100 kg) of cementitious material.

It is recommended that concrete trial mixes be conducted to determine the correct dosage rate for your particular materials and ambient conditions. For more information about the use of this product, please contact your local E5® Representative or the Technical Services Department at 1-888-881-1726.

Mixing

For best results, **E5® Liquid Fly Ash** should be introduced in the concrete mixer at the ready mix location per the E5® Standard Operating Procedure. Allow for proper mixing at the plant before leaving for the project. It is recommended that the combined materials be mixed for approximately 70 revolutions, whether in the concrete mixer or in the Ready-Mix truck.

Environmental Product Declaration

Carbon Footprint (Cradle to Gate)
Global Warming Potential (GWP, 100 years)
491 Kilograms of CO2

Packaging

Size	Gallons	Liters
Pail	5	19
Drum	55	209
Tote	275	1041
Tanker	Bulk	Bulk

Storage Instructions

Do not break seal until product is ready for use. Maintain unused product in the original container. Store in a well-ventilated, cool and dry location at temperatures between 40°-130°F (4° - 54°C). This product has a shelf life of 18 months in its original unopened container. **It is EXTREMELY important to protect from freezing, direct sunlight, and UV exposure.**



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