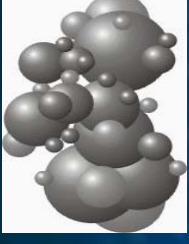


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Benefits of quality fly ash to concrete include:

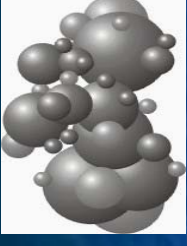
- Increased ultimate compressive strength;
- Reduced water demand;
- Improved workability;
- Better pumpability;
- Easier finishing;
- Reduced segregation;
- Increased density;
- Reduced permeability;
- Reduced bleeding;
- Reduced heat of hydration;
- Reduced drying shrinkage;
- Reduced thermal volume change;
- Increased early age extensibility;
- Decreased creep;
- Increased flexural and tensile strength;
- Increased ultimate modulus of elasticity;
- Decreased leaching and efflorescence;
- Decreased alkali-aggregate reaction;
- Increased ultimate freeze-thaw resistance; and
- Increased sulphate resistance.

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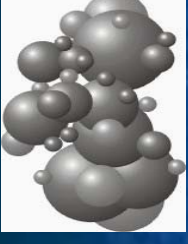
WHY USE HAZELBERG QUALITY FLYASH ?

For Ready Mix and Pre-Mix Concrete Producers :

- Compensate for fines not found in some sands and, thereby, enhance pumpability and concrete finishing.
- Result in a more predictable and consistent finished product, which will ensure customer acceptance.
- Offers flexibility in mix design providing a greater range of mixes - from “flowable fill” at about 1 MPa to high strength 50+ MPa concrete - produced by the same batch plant without exotic equipment.
- Improves the flowability of concrete, which translates into less wear and tear on all the producer’s equipment from batching facilities to trucks.
- Enables the producer to customise designs to each customer’s needs, thus providing the producer who uses it with a competitive advantage.



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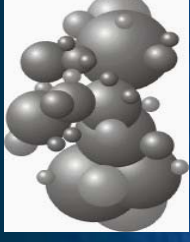


For Engineers and Architects :

1. Enables them to provide the client with a superior and more durable finished concrete.
2. Produces a high strength concrete that accommodates the design of thinner sections.
3. Permits design flexibility accommodating curves, arches and other pleasing architectural effects.
4. The addition of Hazelberg quality flyash to the mix is a built-in insurance for later-age strength gain in concrete.
5. Ensures that the concrete will qualify as a durable building material.
6. Contributes to the smooth aesthetic appearance of the concrete.

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For Developers, Contractors, Owners :



- The workability of fly ash concrete generally ensures that the speed of construction is faster which translates into a quicker return on investment.
- Quality fly ash in the mix accommodates more creative designs.
- Since quality fly ash concrete is not as vulnerable to deterioration or disintegration as rapidly as concrete without quality fly ash, it ensures low-maintenance buildings, which will retain their value over the long-term.

Hazelberg quality flyash definitely enhances concrete construction and returns real benefits to every member of the building team.