

**PRODUCT DESCRIPTION**

AHW™ is a highly effective synthetic polymer based additive which performs extremely well with Portland cement of various types specifically designed to produce concrete with low water binder ratio and excellent workability. AHW™ improves the physical and mechanical performance of concrete.

**PRODUCT FEATURES**

- Allows reduction in cement while maintaining desired strength.
- Accelerates strength development and resulting in higher frequency in use of forms.
- Permits reduction in amount of water normally required for a given workability.
- Enables development of high strength concrete other than by cement addition.
- Provides flow ability (greater than 200mm slump) of fresh concrete that does not segregate and set in normal period of time while maintaining desired water-cement ratio
- Provides concrete with self-consolidating properties
- Enhances passing/filling ability of the fresh concrete
- Enhances aesthetic for minimal repairs
- High water reduction
- High workability-ease of placing and compaction without segregation
- Reduced risk of cracks
- Good adhesion - ease of pumping. No bleeding
- Good workability - excellent surface appearance
- Minimal bleed water - excellent concrete quality
- High elastic modulus - superior load bearing capacity
- Provides properties for sustainable concrete

**HOW TO USE**

**DOSAGE**

Range of dosage rates: from 500 to 1500 ml per 100 kg of cementitious content. Dosage above the recommended values can be employed up to 2200 ml per 100 kg of cementitious content. Still, the required dosage for a specific job with controlled delay in setting and workability should be determined by in-situ trials.

Admixture demand varies with w/b of the concrete, cement type, pozzolanic materials and ambient temperature.

Trials are to be conducted prior to use in order to determine required performance, including workability retention, setting, and strength development.

**MIXING**

AHW™ should be dispensed after all concrete constituents are charged in the central mixer preferably after approximately 60% of water addition.

**APPLICATION**

AHW™ is recommended for all areas of use of high performance:

- High rise concrete applications
- Mass concrete
- High strength concrete



Set Accelerating High Range Water Reducing Admixture - AHW™

- Concrete mixes containing Silica Fume: GGBFS or PFA
- Concrete with high resistance against aggressive media
- Self-consolidating Concrete
- High Durable Concrete

**STORAGE**

AHW™ can be stored up to 1 year from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures.

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation.

**PACKAGING**

AHW™ is supplied in: 1000 liter containers.

**SAFETY**

In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention.

If swallowed, do not induce vomiting and seek medical attention.

**DISCLAIMER OF LIABILITY**

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.