



EUCON™ AWA-P20

ANTI-WASHOUT/RHEOLOGY MODIFYING ADMIXTURE

EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Packaged in 275 gal (1041 L) totes, 55 gal (208 L) drums and 5 gal (18.9 L) pails

SHELF LIFE

1 year in original, unopened container

SPECIFICATION/COMPLIANCES

ASTM C494 Type S

US Corps of Engineers CRD-C661

DESCRIPTION

EUCON AWA-P20 is a ready to use green liquid admixture designed to modify the rheology of self consolidating concrete and prevents the loss of cement and fine aggregate during the placement of underwater concrete. Eucon AWA-P20 also can be used to reduce excessive bleeding and segregation of concrete or mortar. The Euclid Chemical Company recommends the use of EUCON AWA-P20 with the PLASTOL line of polycarboxylate based admixtures. This product contains no added chlorides or chemicals known to promote the corrosion of steel.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Reduces or eliminates bleeding and segregation
- Provides thixotropic properties
- Evenly disperses aggregates within mix
- Reduces segregation during pumping
- Minimizes environmental impact by reducing cement washout
- Eliminates the need for expensive de-watering during underwater construction

PRIMARY APPLICATIONS

- Underwater bridge repair
- Dam repair below the waterline
- Underwater grouting and mortar applications
- Anti-segregation aid for use with lightweight/heavyweight aggregates
- Damming underground rivers/lakes in mining operations
- Concrete designs using gap-graded aggregates
- Self Consolidating Concrete

PRECAUTIONS/LIMITATIONS

- Do not allow material to freeze.
- Testing of EUCON AWA-P20 is required when using naphthalene based plasticizers to confirm there are not performance issues for a specific project.
- The Euclid Chemical Company recommends running trial batches prior to use to determine the effect on the workability, air entrainment, setting times, and hardened concrete properties.
- In all cases, consult the Safety Data Sheet before use.

DIRECTIONS FOR USE

DOSAGES

Self Consolidating Concrete / Bleeding and Segregation Reduction

EUCON AWA-P20 dosage will vary widely depending on w/cm ratio and the gradation of the materials used. Consult your Euclid Chemical representative for appropriate dosing suggestions. Typically, 1-8 oz/100 lbs (65-520 mL/100 kg) of total cementitious should be used to control bleeding and segregation in SCC when polycarboxylate HRWR are used. Variables such as water/cement ratio, sand gradations and mix design play an important role. Trial mixes should be run to optimize dosing requirements. Higher dosage rates of EUCON AWA-P20 may be required depending on the concrete mix design and material properties.

Underwater Applications

To reduce the washout of cement and fine aggregates when placing concrete underwater, 4-20 oz/100 lbs (260-1300 mL/100 kg) of cementitious is recommended. When exceeding 12 oz/100 lbs, a slight increase in setting time may be experienced.

DIRECTIONS FOR USE

The concrete should be batched and the slump adjusted either with water or polycarboxylate HRWR prior to the addition of EUCON AWA-P20. After addition of EUCON AWA-P20, adjust slump through the use of a polycarboxylate HRWR only.

For further recommendations on underwater concreting and underwater concrete mix designs, please consult the ACI 304, "Measuring, Mixing, Transporting and Placing Concrete".

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