

OPTEC[®] Paver Enhancer

Multi-functional efflorescence control admixture

Product Description

OPTEC[®] Paver Enhancer admixture is an innovative admixture specifically formulated to enhance the physical properties and overall appearance of concrete pavers and Segmental Retaining Wall (SRW) units. OPTEC[®] Paver Enhancer can enhance color dispersion and help minimize secondary efflorescence. It provides excellent mix plasticity for improved physical attributes and machinability. OPTEC Paver Enhancer is supplied as ready-to-use liquid. OPTEC[®] Paver Enhancer provides a medium swipe on the surface of the unit for better water control.

Product Uses

OPTEC[®] Paver Enhancer may be used in concrete pavers, segmental retaining wall units and other low slump concrete products where improved physical properties and aesthetics are desired. OPTEC[®] Paver Enhancer is designed to reduce secondary efflorescence, provide improved machinability and unit physical properties.

A full line of companion products are available to provide additional qualities such as, primary efflorescence control, acceleration and densification.

Product Advantages

- Improves cement and pigment dispersion
- Cement and pigment reduction potential
- Improves compressive strength
- Minimizes secondary efflorescence
- Decreases cycle time
- Increases density
- Lowers absorption

Product Function

OPTEC[®] Paver Enhancer admixture improves the dispersion of the cement throughout the mix resulting in better cement hydration and thus higher early and ultimate compressive strengths. Through this dispersion action, cement and consequently pigment, reductions are possible (testing is recommended to determine cement reduction potential). OPTEC[®] Paver Enhancer may also allow for increased water in the mix, which also promotes greater cement hydration.

OPTEC[®] Paver Enhancer may be used to increase the density or lower the absorption if desired. OPTEC[®] Paver Enhancer also improves the plasticity of the mix for improved machinability and reduced cycle times.

OPTEC[®] Paver Enhancer reduces wicking or water uptake in the unit, and at higher addition rates, water will bead on the units.

Application Information

Addition Rates

OPTEC® Paver Enhancer is compatible with most concrete admixtures when multiple admixtures are used however, they must be added separately to the concrete mixture.

OPTEC® Paver Enhancer is generally used at a rate of 6–12 oz/cwt (390–780 mL/100 kg) of cementitious materials including, fly ash and other pozzolans. The addition rate is dependent upon the specific set of materials and the desired end properties.

Mixing Procedure

OPTEC® Paver Enhancer should be added separately to the mix after the initial wetting of the cement and before or with the addition of the final mix water. Once OPTEC® Paver Enhancer is batched, it should be mixed for a minimum of one minute, but preferably two minutes. Mix times of less than one minute should be avoided. Never add OPTEC® Paver Enhancer to dry cement.

Variables such as cementitious content, aggregate gradations, processing equipment, and curing conditions may have an impact on the effectiveness of OPTEC® Paver Enhancer. Testing with local materials and production equipment is necessary to determine the end results.

Consult your GCP representative for more information.

Dispensing Equipment

OPTEC® Paver Enhancer can be dispensed using conventional air diaphragm pump systems. For further information, contact your local GCP representative.

Packaging

OPTEC® Paver Enhancer admixture is available in drums and returnable totes.

Health & Safety

All precautions defined on the SDS (Safety Data Sheet) for OPTEC® Paver Enhancer must be followed.

Storage

OPTEC® Paver Enhancer must be protected from freezing at temperatures of 32 °F (0 °C) and below, as the admixture is not usable once frozen.

OPTEC® Paver Enhancer has a shelf life of 18 months from the date of manufacture.

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