HydroMax® PC

Technical Data Sheet

Internal Curing Admixture
ASTM C494/C494M Type S

DESCRIPTION

HydroMax® PC is an engineered, SAP-based internal curing admixture specifically designed for pervious concrete. It absorbs and releases water within the cementitious paste to support continued hydration during the critical early curing period. By providing internal moisture within the thin cement paste coatings that bond aggregate particles, HydroMax® PC helps improve paste development, strengthen aggregate bonds, and reduce the potential for premature deterioration.[1]

APPLICATIONS

- Pervious concrete pavements
- Parking lots and low-volume roadways
- Sidewalks, walkways, and recreational trails
- Stormwater management applications
- Commercial and residential pervious concrete
- Fiber-reinforced pervious concrete
- Pervious concrete containing SCMs

ADVANTAGES

Depending on concrete mixture proportions, materials, placement, and surface curing practices, HydroMax® PC may help:[1]

- Support continued cement hydration
- Improve cement paste development
- Improve aggregate-to-aggregate bonding
- Improve strength development
- Reduce potential for early-age shrinkage cracking
- Improve resistance to surface raveling
- Improve durability and long-term performance

TYPICAL SPECIFICATION CLAUSE

"Pervious concrete shall be internally cured with HydroMax® PC Internal Curing Admixture manufactured by ProCure. Material shall be used in strict accordance with manufacturer's instructions."

COMPATIBILITY

HydroMax® PC does not contain calcium chloride or other chloride-based ingredients and may be used in combination with other non-chloride admixtures or admixture systems. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix.

VOID CONTENT AND INFILTRATION

HydroMax® PC is designed for use in pervious concrete mixtures incorporating interconnected voids for water infiltration. Concrete mixture proportions, paste content, aggregate characteristics, and consolidation procedures must be established to achieve the specified density, void content, strength, and infiltration requirements. Verify mixture performance through trial batches and appropriate pervious concrete testing.

DOSAGE

HydroMax® PC admixture is recommended for use at a dosage of 0.095%–0.125% by weight of total cementitious materials. This range is suitable for most pervious concrete mixtures made with typical materials and under typical conditions. Dosages outside this range may be appropriate depending on the mixture materials and job conditions.[2] Confirm the dosage through trial batches or consult your HydroMax® representative.

GUIDELINES FOR USE[3,4]

Bagged material — 4.5 lb bags: After all other materials have been loaded, bring the concrete to the top of the drum. Add HydroMax® directly onto the fresh concrete at the slump rack. Rinse the drum in the normal manner after addition. Mix for 5 minutes before discharge.

Water management — Account for aggregate moisture when determining batch water. Maintain the established mixture proportions and avoid unapproved water additions at the jobsite.

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STANDARDS

HydroMax® PC meets the requirements of ASTM C494/C494M Type S.[5]

STORAGE & SHELF LIFE

Store between 41°F (5°C) and 95°F (35°C) in unopened original containers. Protect from direct sunlight and freezing. Shelf life is at least one (1) year.

PACKAGING

• 4.5 lb (2 kg) bags

TYPICAL PROPERTIES

Color:	White to cream
Physical state:	Solid (dustless powder)
pH (in water):	10.5–12.7
Bulk density:	0.7 g/mL

NOTES

[1]Benefits depend on mixture proportions, materials, placement, consolidation, and surface curing. Pervious concrete performance depends on maintaining appropriate paste quality, aggregate bonding, interconnected voids, and surface curing.

[2]Dosages outside the recommended range may be appropriate when supported by testing with the proposed mixture and materials.

[3]Verify batching sequence, mixing time, and uniform distribution through plant trials.

[4]HydroMax® PC provides internal curing and does not replace surface curing.

[5]For ASTM C494/C494M Type S testing, air contents in the reference and test mixtures were adjusted to equivalent levels.

WARRANTY

ProCure, a division of Advanced Chemical Technology, LLC (ProCure) warrants that HydroMax® PC is free from manufacturing defects and conforms to its published product specifications. Because conditions of use, such as site conditions, workmanship, concrete ingredients, weather, structural issues, and other factors are beyond the control of ProCure, no warranty can be given as to the results of use. The Purchaser is responsible for consulting qualified professionals and determining the suitability of the product for its intended application. Purchaser's sole remedy is limited to replacement of any product proven defective or, at ProCure's option, refund of the purchase price paid. THIS LIMITED WARRANTY CONTAINS THE ENTIRE OBLIGATION OF PROCURE. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PROCURE SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. No representative of ProCure is authorized to modify or extend this limited warranty except through a written agreement authorized by ProCure. ProCure reserves the right to revise its product specifications and technical literature. Product supplied shall conform to the applicable specifications in effect at the time of sale.

PROCURE
WE STAND FOR CURING

ENGINEER THE CONCRETE
ENGINEER THE CURE™

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