

PENETRON BIOMIC

ANTIMICROBIAL CONCRETE ADMIXTURE

DESCRIPTION

PENETRON BIOMIC is an antimicrobial admixture added to the concrete mix at the time of batching. It forms a molecular bond with the concrete, preventing microbial-induced corrosion (MIC) damage and inhibiting the growth of other product-damaging and odor-causing microorganisms, such as bacteria, algae and fungi.

PENETRON BIOMIC's technology is an EPA registered microbiostatic agent that ruptures microbe cell walls on contact. This complete electro-physical destruction of the microbes that come into contact with it does not deplete PENETRON BIOMIC and, as it is also leach resistant and will not migrate through the concrete, it retains its effectiveness indefinitely.

APPLICATIONS

Precast concrete: manholes, pipes, tanks and other such precast structures used in sewer and drainage applications.

Cast-in-place concrete: wastewater treatment plants or other cast concrete in sewage and drainage applications.

Shotcrete applications

Concrete and mortar repairs where protection from microbial-induced-corrosion is required.

ADVANTAGES

Prevents microbial-induced-corrosion caused by acid-producing bacteria.

Electro-physical destruction mechanism destroys the bacteria cell walls. Repeated contact with bacteria will not lessen PENETRON BIOMIC's effectiveness.

Becomes an active and integral part of the entire concrete structure, so it remains effective even if the surface is abraded.

Contains no heavy metals or carcinogens.

Broad-spectrum protection, including gram positive and gram negative bacteria, fungi, mildew and algae.

Fully compatible with PENETRON ADMIX[®]

DIRECTIONS FOR USE

Dosage rate:

For prevention and protection against high levels of microbial-induced-corrosion, it is recommended that PENETRON BIOMIC be dosed at a rate of one gallon per cubic yard (1 gal/yd³, 5 L/m³) of concrete.

Mixing:

Concrete treated with PENETRON BIOMIC should be placed and finished in accordance with good concrete practices. ACI guidelines and recommendations should be observed.

SPECIAL CONSIDERATIONS

When incorporating PENETRON BIOMIC, the temperature of the concrete mix should be above 40°F (4°C).

PACKAGING

PENETRON BIOMIC is available in 5-gallon (19-l) pails, 55-gallon (208-l) drums and 275-gallon (1041-l) totes.

STORAGE / SHELF LIFE

PENETRON BIOMIC should be protected from freezing. If product does freeze, it should be discarded. Shelf life is one year when stored in original unopened container at or below 77°F (25°C).

SAFE HANDLING INFORMATION

PENETRON BIOMIC may cause moderate skin and eye irritation. Penetron International, Ltd. maintains comprehensive and up-to-date Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of your employees and customers. **KEEP OUT OF REACH OF CHILDREN.**

Contact Penetron International, Ltd. or your local Penetron representative to obtain copies of Safety Data Sheets prior to product storage or use.

WARRANTY: PENETRON INTERNATIONAL, LTD. warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON INTERNATIONAL, LTD. shall be limited to replacement of the material proven to be defective, and PENETRON INTERNATIONAL, LTD shall in no case be liable otherwise or for incidental or consequential damages. **PENETRON INTERNATIONAL, LTD. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

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