

**DESCRIPTION**

**AQUABAN 300**, as a chemical additive to portland cement concrete, markedly reduces water permeability and water absorption of the hardened concrete.

**AQUABAN 300** added to concrete will provide a watertight material, resistant to liquids under pressure.

**AQUABAN 300** concrete has a proven history of solving unusual water problems without additional waterproofing treatments.

**AQUABAN 300** treated concrete has been successfully used in a diverse variety of problem installations; rooftop swimming pools, underground parking garages, vaults, storage silos, dams, basement walls and others.

**LIMITATIONS**

**AQUABAN 300** modified concrete does not have dynamic crack bridging ability.

**COMPOSITION & MATERIALS**

**AQUABAN 300** is a multi-component copolymer concentrated liquid mainly based on inorganic materials.

**AQUABAN 300** is a concrete stabilizing emulsion which densifies the cement gel structure and stabilizes micro-porosity throughout the concrete.

**CONTAINERS**

**AQUABAN 300** is furnished in 1, 5, 45 gallon containers.

**APPLICABLE STANDARDS**

Tested in accordance with existing Standards. **AQUABAN 300** as a chemical additive to concrete, exhibits many of the characteristics of a "Water Reducing and Retarding Admixture" per ASTM C494-71, Type D.

**TECHNICAL DATA**

**AQUABAN 300** added to the basic concrete matrix disperses cement particles uniformly throughout the mix, creating improved homogeneity and plasticity in the mix with lower water content. Water in the mix may be reduced by 10% or more with the addition of **AQUABAN 300**. Water reduction and other chemical reactions produced by **AQUABAN 300** within the concrete form an extremely dense, water-permeable-resistant concrete. **AQUABAN 300** provides improvement to concrete compressive strengths at all stages of hydration development (except in very low cement-content mixes).

**AQUABAN 300** additive retards the setting time of concrete approximately 10%. **AQUABAN 300** additive increases the initial bulk density of concrete between 1% and 2%.

**INSTALLATION**

**AQUABAN 300** is added to the concrete mix after the initial charging of cement, aggregate and a minimum amount of water. After the **AQUABAN 300** is thoroughly dispersed in the mix, additional water may be added to achieve the desired slump. However, the water-cement ratio should not exceed 0.4.

Add **AQUABAN 300** to the basic mix at the following rate:

For concrete wall thickness less than 8 inches, add **AQUABAN 300** equal to 1% of the weight of portland cement.

For concrete wall thickness over 8 inches and largest size aggregate over one inch size, add **AQUABAN 300** equal to 0.6% of the weight of portland cement.

Concrete with **AQUABAN 300** is transported and placed in the same manner as plain concrete. However, concrete with **AQUABAN 300** requires positive mechanical vibration as the concrete is being placed.

**AVAILABILITY**

**AQUABAN 300** may be obtained through the manufacturer. Also available from selected distributors in Canada and United States. For information about the nearest source, please write or call PennKote.

**MAINTENANCE**

Concrete containing **AQUABAN 300** concrete additive should be cured and protected from physical and chemical damage in the same manner as regular cast-in-place concrete.

**TECHNICAL SERVICES**

PennKote Limited will assist architects, engineers, specifiers and contractors in solving unique waterproofing problems and with specific applications of the **AQUABAN SYSTEM**.

**RELATED INFORMATION**

**AQUABAN 300** as portland cement mortar additive for specific applications with existing concrete or masonry surfaces.

See Product Data and Specifications Sheet "**AQUABAN 300 MORTAR ADDITIVE**".

**WARRANTY**

PennKote Ltd. warrants its products against manufacturing and material defects. PennKote will, for a period of two years from the date of application, supply replacement material for product proven to be defective. This warranty is in lieu of any and all other warranties expressed or implied. Pennkote Ltd. and any Distributor or Retailer of this product accept no liability for incidental or consequential damage due to defective material or improper installation. The user shall determine the suitability of this product for intended use.