

**SPECIFICATION FOR**

# AQUAPEL\*

**REQUIREMENT:**

Integral waterproofing, damp-proofing and corrosion proofing of structural concrete, render, toppings, etc. Suitable for use in all concrete structures subject to severe damp/wet conditions without application of separate membranes or tanking. Also waterproof toppings & renders. Enhanced durability in salt, acid or other aggressive service environments.

- For extra heavy-duty / high hydrostatic pressure / severe conditions, see Data Sheet for Cementaid Everdure CALTITE.

**PRODUCT TO USE:**

**AQUAPEL**

Hydrophobic Pore-blocking Ingredient (HPI)

**HOW TO SPECIFY:**

"All concrete (state sections) shall be integrally waterproofed by the inclusion in the mix of Cementaid **AQUAPEL** Hydrophobic Pore-blocking Ingredient (HPI) at the rate of 8-10 litres per cubic metre of concrete. Cementaid SUPERPLASTET PC 203 or proven equivalent shall be added at the recommended rate. The water content of the mix shall be reduced to preserve the specified slump and achieve a [water+AQUAPEL]: cement ratio not greater than 0.45. The recommended minimum portland (GP) cement content of the mix shall be 350 Kg per cu. metre concrete (For blended cements, see Cementaid **AQUAPEL** System Detailed Specification). Cement content shall be stated on premix docket."

**NOTE: AQUAPEL** provides approx 15 mins retardation of set. Retarding admixtures should not be used unless extra retardation is required. (Setting of concrete shall be according to the approved mix design and shall follow the project requirement) Trial mixes should be conducted prior to concreting to determine optimum mix. **AQUAPEL** concrete becomes waterproof within hours of casting – Concrete test specimens should be continuously covered/immersed to prevent premature moisture loss until tested.

**DOSAGE:**

**Concrete:**

8-10 litres of **AQUAPEL** per cubic metre of concrete plus 0.45 to 1.0 litre of SUPERPLASTET PC 203 per 100 Kg of cement or proven equivalent (or at other rates recommended by manufacturer with water content adjusted to maintain slump).

**Toppings or Renders:**

1.50 litres of **AQUAPEL** per 50 Kg of cement.

0.32 litres & SUPERPLASTET PC 203 or proven equivalent per 50 Kg of cement.

**MIX ADJUSTMENT:**

The quantity of added water will need to be reduced by approx. 1 litre for every litre of **AQUAPEL** and approx. 8-10 litres for every litre of SUPERPLASTET PC 203 to retain the same workability.

**EFFECTS:**

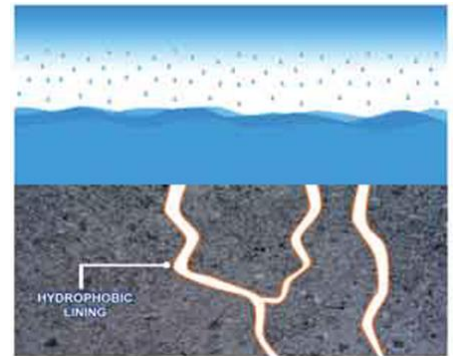
**NOTE:**

Powerfully Hydrophobic Matrix™ prevents water absorption and transmission of dampness. Provides DRY,damp-free performance. Eliminates past need for plastic / waterproof sheet

/membranes, etc. Profoundly reduces water absorption to consistently less than 1.75% at 7 days age in field concrete (BS 1881:Pt.122:1983). Waterproofing & durability protection throughout the entire concrete mass. Significantly enhanced durability with excellent resistance to salt and moderate chemical attack. More than 45 years proven successful performance. Favorably modifies concrete strength, shrinkage and other key properties. **AQUAPEL** can be detected in wet concrete by the slight odor of ammonia present. Allow good ventilation during confined works, particularly if sensitized.

**WHERE RECOMMENDED:**

Covered or landscaped roof decks Slabs on grade to replace polythene/membranes. Medium-depth substructures/ car-park basements (less than 3 metres pressure head). Deeper basements with substantial section thickness (150mm – 300 mm).Concrete exposed to marine, salt or acid environment for enhance durability, waterproof renders & toppings



The information and recommendations herein are,as a result of experience and testing,accurate to the best of the seller's knowledge. However, as the proposed use and the circumstances surrounding such use are not known to the seller,it does not guarantee or warrant the product's suitability in any particular instance and shall not be liable for any loss or damage consequent upon any use whatsoever unless the seller has otherwise stipulated the product's suitability for a particular use in writing signed by a Director of the seller.

**APPLICATION: CONTACT CEMENTAID FOR SUPPLY AND APPLICATION SERVICE**

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