

you can **RELY** on

CEMENTAID
The Way to Better Concrete



**HEAVY DUTY CONCRETE
WATERPROOFING AND CORROSION-
PROOFING INGREDIENT**

SPECIFICATION FOR

EVERDURE CALTITE*

REQUIREMENT:

Heavy-duty integral waterproofing, damp-proofing & corrosion-proofing of structural concrete, without application of polyurethane/ membranes, tanking or separate surface-treatments. Suitable for use in all concrete structures subject to water under pressure and/or severe damp/wet conditions. Corrosion-proofing of structural concrete against chlorides, from marine environments, concrete exposed to acid reclaimed land or sulphate bearing soil/groundwater and to protect concrete floors and toppings. Prevention of leaching/salt stains from tile mortars, renders etc.

For Membrane-Free Caltite Concrete Roof and Caltite Jointless Floors, ask for separate specifications. It is recommended that Roof and Floor drawings be checked at our Technical Service Offices-see below.

PRODUCT TO USE:

EVERDURE CALTITE

Hydrophobic Pre-blocking Ingredient (HPI).

HOW TO SPECIFY

C"All concrete (specify sections) shall be waterproofed/corrosion-proofed by the addition of Cementaid Everdure CALTITE Hydrophobic Pore - blocking Ingredient (HPI) or proven equal & approved, dosed at the rate of 30 litres per cubic metre of concrete. Cementaid other concrete enhancing products will be included to greatly reduce shrinkage cracks & voids. The portland cement content of CALTITE waterproofed concretes shall not be less than 370 kg per cu. m., or as per manufacturer's recommendations for blended cements. The minimum Compressive Strength of concrete is 30 Mpa or K-350. The [water+ CALTITE]: cement ratio should not exceed 0.37, and the concrete shall further have a corrected 30 minute absorption of not greater than 1.0% (one percent) as measured by BS 1881:Part 122:1983 when clay except that the age at test shall be 7 days or 28/56 days when clay/silt content of sand is more than 5%".

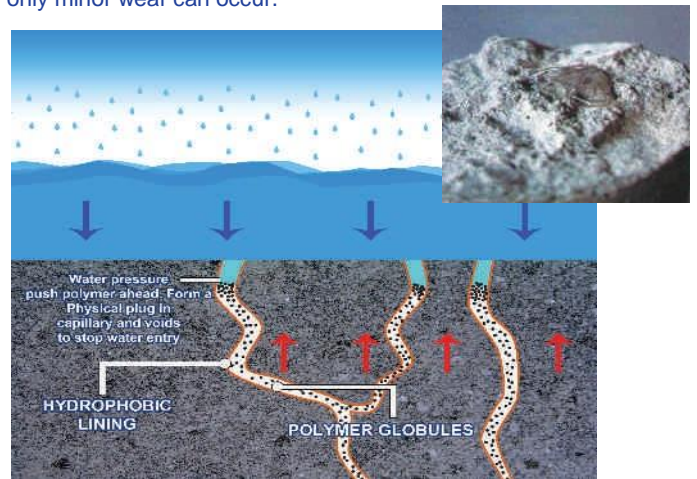
NOTE: EVERDURE CALTITE provides approx 15 mins retardation of set. Retarding admixtures should not be used unless extra retardation is required (setting of concrete shall be according to the approved mix design and shall follow the project requirement).

RENDERS & TOPPINGS:

"All (render of toppings- specify mix) shall contain 4 litres of CALTITE integral waterproofer plus 0.32 litres of SUPERPLASTET PC 203 or proven equivalent per 40 Kg of cement used in the mix. The water content shall be adjusted to preserve the specified slump".

REQUIREMENT:

CALTITE reverses concrete's normal capillary "wicking" or absorptive action, producing instead concrete with a uniformly Hydrophobic Matrix™ and capillary pore-blocking components throughout. These combined effects expel water and any contained salts or acids, and prevent their re-entry, including under hydrostatic pressure. The hydrophobic interior of CALTITE concrete controls transmission of dampness without applied membranes or barriers, and is unaffected by acidic or salt solutions in contact with its surface. The action of aggressive salts or acids is confined to extreme outer surface, where only minor wear can occur.



CALTITE allows the construction of fully waterproof/ habitable, structures, including deep basements & tunnels below water, trafficable roofs & decks, without the past need for applied tanking or waterproofing membranes. This results in very substantial time & cost savings, as well as eliminating long-term maintenance. The unique Hydrophobic Matrix™ allows damp - free rectification of placement flaws (e.g. construction joint, shrinkage crack, etc.) by simple grout or PU injection.

WHERE RECOMMENDED:

Basements, lift-wells, other sub-structures in wet ground or subject to hydrostatic pressure. Industrial / chemical / food processing floors, trafficable concrete roofs landscaped decks (also refer to HPI Reinforced system), and locations where ground-water/ reclaimed land may contain organic acids, sulphates or other harmful salts. Jetties & wharves, boat ramps and all concrete in a marine environment where long maintenance- free service life is required. All damp or wet environment, where transmission of dampness or absorption of water & contained salts or acids is undesirable.

The information and recommendations herein are, as 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 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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