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CEMENTAID

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SPECIFICATION FOR

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

EVERDURE **CALTITE***

REQUIREMENT:

Heavy-duty integral waterproofing, damp-proofing & corrosion-proofing of structural concrete, without application of 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, reclaimed land or sulphate-bearing soil/groundwater, and to protect concrete floors and toppings subject to acids or other aggressive materials. Waterproof renders & 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:

CALTITE

Hydrophobic Pore-Blocking Ingredient (HPI)

HOW TO SPECIFY - CONCRETE:

"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. A High Range Water Reducing Agent (HRWRA), such as Cementaid SUPERPLASTET F or proven equal & approved, should be included at the rate of 0.5 – 1.5% by wt. of cement, reducing water content accordingly to preserve the specified slump. The Portland cement content of **CALTITE** waterproofed concretes shall not be less than 335 kg per cu. m., or as per manufacturers' recommendations for blended cements. The [water + **CALTITE**]: cement ratio should not exceed 0.45, 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, except that the age at test shall be 7 days."

NOTE: **CALTITE** provides approx. 15 mins retardation of set. Retarding admixtures should not be used unless extra retardation is required.

RENDERS & TOPPINGS:

"All (*render or toppings – specify mix*) shall contain 4 litres of **CALTITE** integral waterproofer per 40 Kg bag of cement used in the mix. The water content shall be adjusted to preserve the specified slump."

EFFECTS:

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 the 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 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, and locations where ground-waters / 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 environments, where transmission of dampness or absorption of water & contained salts or acids is undesirable.

APPLICATION: CONTACT CEMENTAID FOR SUPPLY AND APPLICATION SERVICE



Australian owned

INDUSTRIAL FLOOR SPECIFICATIONS • CONCRETE WATERPROOFING & CORROSION-PROOFING ADMIXTURES
OIL & SOLVENT PROOFING • SURFACE TOUGHENING & DUSTPROOFING • ANTI-CORROSION IMPREGNATIONS
RAPID HARDENING • RETARDING • GEL CONTROL AGENT • MORTAR AND DAMPCOURSE ADMIXTURES, etc.

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.

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