

you can **RELY** on



CONCRETE WATERPROOFING AND CORROSION-PROOFING INGREDIENT

SPECIFICATION FOR

3CC*

REQUIREMENT:

Integral waterproofing, damp-proofing and corrosion-proofing of structural concrete, renders, 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:

3CC

Hydrophobic Pore-blocking Ingredient (HPI)

HOW TO SPECIFY:

"All concrete (state sections) shall be integrally waterproofed by the inclusion in the mix of Cementaid **3CC** Hydrophobic Pore-blocking Ingredient (HPI) at the rate of 15 litres per cubic metre of concrete. Cementaid SUPERPLASTET 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 + **3CC**]: cement ratio not greater than 0.45. The recommended minimum Portland (GP) cement content of the mix shall be 335 Kg per cu.metre concrete (For blended cements, see Cementaid **3CC** System Detailed Specification). Cement content shall be stated on premix docket."

NOTE: 3CC provides approx 15 mins retardation of set. Retarding admixtures should not be used unless extra retardation is required.

Trial mixes should be conducted prior to concreting to determine optimum mix.

3CC concrete becomes waterproof within hours of casting – Concrete test specimens should be continuously covered/immersed to prevent premature moisture loss, until tested.

DOSAGE:

Concrete:

15 litres of **3CC** per cubic metre of concrete plus 1 to 1.5 litre of SUPERPLASTET per 100 Kg of cement (or as recommended by Cementaid technical staff).

Toppings or Renders:

2 litres of **3CC** per 40kg of cement.
0.4 litres SUPERPLASTET per 40kg of cement.

MIX ADJUSTMENT:

The quantity of added water will need to be reduced by approx. 1 litre for every litre of **3CC** and approx. 10 litres for every litre of SUPERPLASTET 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 1.5% 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 chemical attack. More than 45 years proven successful performance. Favourably modifies concrete strength, shrinkage and other key properties. **3CC** can be detected in wet concrete by the slight odour of ammonia present. Allow good ventilation during confined works, particularly if sensitised.

WHERE RECOMMENDED:

Covered or landscaped roof decks
Slabs on grade to replace polythene/membranes.
Medium-depth substructures / car-park basements (less than 4 metres pressure head).
Deeper basements with substantial section thickness (>400mm).
Concrete exposed to marine, salt or acid environments for enhance durability.
Waterproof renders & toppings

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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