**CONCRETE WATERPROOFING AND CORROSION-PROOFING INGREDIENT**

**REQUIREMENT:**
Integral waterproofing, damp-proofing and corrosion-proofing of structural concrete, renderings, toppings, etc.

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**PRODUCT TO USE:**
3CC Hydrophobic Pore-blocking Ingredient (HP)

**HOW TO SPECIFY:**
“All concrete (state sections) shall be integrally waterproofed by the inclusion in the mix of Cementaid 3CC Hydrophobic Pore-blocking Ingredient (HP) at the rate of 15 litres per cubic metres 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 (SP) 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 dockets.”

**NOTE:** 3CC provides approx 15 mins retardation of set. Retarding admixtures should not be used unless extra retardation is required. These mixes should be conducted prior to crediting to determine optimum mix. 3CC concrete becomes waterproof within hours of casting. “Concrete test specimens should be continuously covered/ncovered to prevent premature moisture loss, until tested.”

**DOSSHAGE:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Requirements</th>
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<tbody>
<tr>
<td>Concrete</td>
<td>15 litres of 3CC per cubic metre of concrete plus 1 to 2 litres of SUPERPLASTET (or as recommended by Cementaid technical staff)</td>
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<tr>
<td>Toppings</td>
<td>2 litres of 3CC per 400g of cement. 0.4-1 litres SUPERPLASTET per 400g of cement.</td>
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**EFFECTS:**

1. **Powerfully Hydrophobic:** Matrix™ prevents water absorption and transmission of dampness. Provides long-term freedom from dampness.
2. **Eliminates past need for plastic / waterproof sheet / coatings**
3. **Profoundly reduces water absorption to consistently less than 1.5% at 7 days age in field concrete.** (BS 1881: Part 122:1982)
4. **Waterproofing & Durability protection throughout the entire composite. Significantly enhanced durability with elegant resistance to salt and chemical attack.** More than 45 years proven successful performance. Favorably modifies concrete strength, durability and other key properties. 3CC can be detected in wet concrete by the slight color of drying cement. Allows good workability throughout the entire composite.

**WHERE RECOMMENDED:**

- Covered or landscaped roof decks
- Slabs on grade to replace polythene/membranes.
- Concreting of "dry-pit" basements (less than 4 metres present head).
- Deeper basements with substantial section thickness
- Slabs on grade to replace polythene/membranes.
- Concrete exposed to marine, salt or acid environments for enhanced durability.

**APPLICATION:**

- **CONCRETE WATERPROOFING & CORROSION-PROOFING INGREDIENT**
- **CALTITE**

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

**REQUIREMENT:**
Heavy-duty integral waterproofing, damp-proofing & corrosion-proofing of structural concrete, without application of membranes, lining or separate surface treatments.

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**PRODUCT TO USE:**
CALTITE Hydrophobic Pore-blocking Ingredient (HP)

**HOW TO SPECIFY:**
“All concrete (state sections) shall be integrally waterproofed by the addition of Cementaid CALTITE Hydrophobic Pore-blocking Ingredient (HP) or proven equal & approved, dried at the rate of 30 litres per cubic metre of concrete. A High Range Water Reducing Agent (HRWRA), such as Cementaid SUPERPLASTET for proven equal to approved, should be included at the rate of 0.3 – 1.5% by wt. of cement, reducing water content according to the specified slump. The Portland cement content of CALTITE waterproofed concrete shall not be less than 430 kg per cu.m. or, as per manufacturer's recommendations for blended cements. The water cement ratio should not exceed 0.5, and the concrete shall further have a compressive strength of not greater than 150 (1500) psi as measured by BS 1881: Part 122:1982, 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.

**INDUSTRIAL FLOOR SPECIFICATIONS**

- **CONCRETE WATERPROOFING & CORROSION-PROOFING INGREDIENT**
- **CALTITE**

**INDUSTRIAL FLOOR SPECIFICATIONS**

- **OIL & SOLVENT PROOFING**
- **SURFACE TOUGHENING & DUSTPROOFING**
- **ANTI-CORROSION IMPREGNATIONS**

**APPLICATION:**
Contact Cementaid for supply and application service.

**TECHNICAL SERVICE OFFICES**

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The information and recommendations herein are, as a result of experience and testing, accurate to the best of the writer’s knowledge. However, as the conditions are the circumstances surrounding each case are not known to the writer, if these particulars are not guaranteed to be applicable in all cases, or if the products specified herein are not available in all places, the writer cannot be held responsible. All products may be used in any one or combination of any other compatible admixture for a particular use in an equalized/graded manner. The recommended products are satisfactory for a particular use in an equalized/graded manner. The writer nor any one connected with the writer shall be held responsible for any loss, damage or injury caused by the use of any product, or any use in accordance with the recommendations and specifications. The writer reserves the right to make changes, improvements or modifications in the products specified, for a particular use in an equalized/graded manner, and for any product, in any one or combination of any other compatible admixture, without incurring any obligation in connection therewith.