



# EVERDURE CALTITE

## FOR MEMBRANE-FREE WATERPROOF STRUCTURES

HYDROPHOBIC PORE-BLOCKING INGREDIENT HPI

### Applications

EVERDURE CALTITE is a heavy-duty waterproofing, corrosion and crack resisting ingredient (HPI) that is ideal for the following applications:

1. Heavy-duty integral waterproofing and dampproofing ingredient for structural concrete where there are severe damp conditions or water under pressure.
2. Protection of concrete against sulfate or acid bearing soil waters, and seawater wetting and drying.
3. To minimize deterioration of concrete floors and toppings subjected to acid and chemical attack.

### Best places to use:

- Basements, tunnels, lift wells, podium decks and concrete roofs to replace membrane and coating systems.
- Joint-free industrial floors or floors exposed to chemical attack.
- Foundations/substructures where soil waters may contain sulfates or acids.
- Concrete in a marine or aggressive environment.

### Specifications

All concrete (specify sections) shall be waterproofed/protected by the addition of Cementaid EVERDURE CALTITE at the rate of 30 liters per cubic meter (6 gal/cy). Superplasticizer shall be added at the recommended rate. The water content shall be reduced to preserve the specified slump and achieve a w/c ratio not greater than 0.42. The cement content of EVERDURE CALTITE concrete shall not be less than 335 kg per cubic meter (565 lb./cy).

Note:

- **Flatwork Curing Requirement:** Use Confilm evaporation retardant and an approved curing compound.
- **Control Joints and penetrations:** Apply Volclay expanding joint strip according to drawings.
- **Projections through prepared openings:** Fill void space with approved non-shrink grout containing Caltite recommended rate.
- **Monitoring of Caltite System installation:** Monitoring team provided by Caltite supplier.

### Benefits

- More than 40 years proven waterproofing/corrosionproofing field performance.
- Effective and permanent protection throughout the concrete.
- Eliminates requirement for membrane and coating products.
- Water absorption as measured by British Standard 1881: pt. 122: 1983 is consistently less than 1% in field concrete.
- Water permeability found to be reduced by approximately 10 times.
- Water vapor transmission resistance 603 MN. s/g for a 300 mm section.
- Reduces drying shrinkage by up to 50%.
- Exceptionally low chloride penetration rates.
- High resistivity due to non-sorptive nature of EVERDURE CALTITE concrete.
- Excellent freeze-thaw, salt-scaling and acid resistance.
- No detrimental effect on strength or other properties of concrete.

### Dosage

#### Concrete:

30 liters of EVERDURE CALTITE per cubic meter of concrete plus Superplasticizer as recommended.

#### Topping or Render:

4.5 liters of EVERDURE CALTITE per 50 kg of cement.

0.5 liters Superplasticizer pr 50 kg. of cement .

#### Mix Adjustment:

The quantity of added water will need to reduced by approximately 1 liter for every liter of EVERDURE CALTITE and approx. 10 liters for every liter of Superplasticizer to retain the same workability.

We invite you to learn more about Caltite and our Commercial Solutions at: [www.calportland.com](http://www.calportland.com)  
Email: [caltitesales@calportland.com](mailto:caltitesales@calportland.com)