

# **FEBTITE POWDER** **WATERPROOFING POWDER FOR CEMENT, MORTAR AND** **CONCRETE**

## **Description:**

FEBTITE POWDER prevents passage of water through concrete renders. It also stops water absorption.

By a physical action FEBTITE POWDER seals the surface of the concrete, making it non-absorptive. The waterproofing ingredient of FEBTITE POWDER is insoluble in water and therefore becomes a permanent constituent of hardened concrete.

It also contains an air-entraining plasticiser, which allows a reduction to be made in water content of the mix whilst maintaining workability and the final strength of the concrete or mortar.

FEBTITE POWDER does not adversely affect setting time.

## **Primary Use:**

To waterproof pre-cast concrete and reconstructed stone products.

To waterproof concrete and cement rendering.

## **Advantages:**

FEBTITE POWDER disperses rapidly upon contact with the mixing water distributing itself throughout the mix.

- FEBTITE POWDER's waterproof element is insoluble in water.
- FEBTITE POWDER has a higher range concentration of effective waterproofing medium than any other cement waterproofing compound yet available in this country.
- FEBTITE POWDER becomes permanent constituent of the hardened concrete and cannot evaporate or deteriorate.
- FEBTITE POWDER in the cement paste, which surrounds and binds the aggregate, seals the surface and concrete mass rendering them non-absorptive.
- FEBTITE POWDER does not change the setting time of the cement, reduce strength of concrete or corrode reinforcement.
- FEBTITE POWDER has no chemical reaction. Its action is physical and positive and is thus permanent.
- Water cannot penetrate or be absorbed into the concrete; hence it prevents movement that can arise from intermittent wetting with a resultant reduction in surface crazing.
- By sealing the surface, reconstructed stonework stays cleaner longer and has greater resistance to attack from atmospheric acids.

## **Uses in Manufacturing:**

Reconstructed Stonework:

It is a known fact that one of the major causes of surface crazing in reconstructed stonework is due to the strains and stresses that are set up from intermittent wetting of the stonework.

The strain set up by sudden expansion, which is quickly followed by a contraction, weakens the bond between aggregate and cement and over a short period of time surface crazing develops, the movement strain being so great that the bond between

cement and aggregate can be broken and in certain instances the aggregate itself splits.

The incorporation of an efficient water proofer at the time of manufacture will help to counteract crazing, providing of course that the water proofer not only prevents water penetration but also water absorption. The use of FEBTITE POWDER will impart these qualities.

**Reinforced Pre-cast Concrete Products:**

In the manufacture of fence posts and similar products, it can be difficult to give sufficient coverage to the reinforcement. The result is that if the concrete is not watertight the reinforcement will corrode.

Corrosion will cause the concrete to split in line with the reinforcement causing scaling and gradual disintegration of the concrete post. The incorporation of FEBTITE POWDER will prevent this.

**Concrete Pipes:**

In concrete pipe manufacture, impermeable concrete is essential but is not always achieved. The addition of FEBTITE POWDER acts as a safety margin in ensuring that the concrete is always watertight and non-absorptive. In making the concrete non-absorptive it has higher resistance to the attack of acidified soil, effluents and strong alkaline water.

**Concrete Wall Cladding:**

The prevention of rain penetration is not only essential for structural reasons but it is also an important factor in preventing surface discoloration from the smoke laden and acidified atmosphere.

**Composition:**

FEBTITE POWDER is an off-white powder containing a blend of selected metallic stearates with plasticiser.

Contains no chlorides or nitrates.

**Dosage:**

FEBTITE POWDER is used at the rate of 1kg per 50kg of cement used. The FEBTITE POWDER can be pre-mixed dry with the cement, or alternatively, it can be tipped into the mixer at the time the cement is added to the aggregate.

Avoid over working.

**Packaging:**

FEBTITE POWDER is packed in 2 kg packets and 20kg sacks.

**Storage:**

Storage in dry conditions.