

SpEC Integral Liquid Waterproofer

INTEGRAL WATERPROOFING ADMIXTURE FOR CEMENT MIXES

DESCRIPTION

SpEC Integral Liquid Waterproofer is a stabilized emulsion of ester and lignin-based water reducing agent. When added to Concrete and mortar mixes, it reacts with products of cement hydration to produce insoluble crystalline structures, which block the pores of the hardened matrix thus making it permanently impermeable.

A secondary effect is to increase workability by breaking the surface tension of the gauging water molecules. This in turn allows a reduction in the mix water content without affecting workability, further reducing permeability.

TYPICAL USES

SpEC Integral Liquid Waterproofer is used to produce waterproof mixes for:

- in-situ and precast concrete
- Sand-cement mortars
- Flood screeds
- Plasters

ADVANTAGES

- Produces concrete which is impermeable at water pressures of up to 1.1N/mm^2 (equivalent to a head of water of 105 metres)
- Improves workability at reduced water contents
- improves comprehensive strength by reducing water-cement ratio
- improves bulk density of concrete
- Produces cement renders with improved bond strength and impervious, non-absorbent surfaces
- Does not affect setting time

TECHNICAL DATA

Form	Liquid
Specific Gravity	1.02
Chloride Content	Nil

APPLICATION

SpEC Integral Liquid Waterproofer is added to the mix with the gauging water at the rate of 500ml per 50kg of cement.

The optimum water content to maintain workability should always be determined by trials using the actual materials and reproducing as much as possible actual size condition.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately with water.

PACKAGING

SpEC Integral Liquid Waterproofer is supplied in 5 litre tins, 25 litre pails and 200 litre drums.

STORAGE AND SHELF LIFE

SpEC Integral Liquid Waterproofer has a shelf life of 12 months when stored in sealed containers in cool and dry conditions.

HEALTH AND SAFETY

Adequate precautions should be taken to prevent eye and skin contact.

Use of gloves and goggles during application is recommended.

Skin contamination shall be washed immediately with soap and water. Eye contamination shall be washed immediately with copious amounts of clean water followed by medical attention.

FLASH POINT

Not Applicable

Other SpEC Admixture Products:

- **SpEC Liquid Mortar Plasticiser - Resin Based**
Air Entraining Admixture
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