

# MasterPel<sup>®</sup> 725

Permeability reducing admixture for concrete and mortar

## DESCRIPTION

**MasterPel 725** is an integral admixture designed to reduce the rate of transmission of moisture through concrete. It does not contain chemicals that might cause undesirable side effects when used in conjunction with admixtures normally used in concrete.

**MasterPel 725**, used as an integral admixture in concrete, reacts with the cement hydration process to form a hydrophobic coating on the pore and void surfaces of concrete, which reduces the capillary suction and minimises absorption and penetration of water.

## FIELDS OF APPLICATION

- most applications requiring watertight concrete such as basement walls and floors, tanks, pipes, tunnels, silos and pools
- concrete blocks and bricks
- low cement content panels and claddings
- wall and tank foundation renderings
- concrete structure where subsequent application of render, tiles or paint is required

## FEATURES AND BENEFITS

|                                     |   |
|-------------------------------------|---|
| <b>Improved hydrophobic coating</b> | Reduces permeability.<br>Increases watertightness.<br>Increases durability.<br>Reduces relative absorption. |
| <b>Good workability</b>             | Good finishing characteristics for slab-work and off-form surfaces.   |
| <b>Good cohesiveness</b>            | Reduces segregation particularly in lean mixes and high slump concrete.                                     |

## TYPICAL PERFORMANCE DATA

In comparison to plain concrete, a mix containing **MasterPel 725** develops better watertightness of the concrete.

### Curing

Like all cementitious mortars and concrete, concrete made with **MasterPel 725** must be protected against rapid drying due to high temperature and/or strong winds. The use of wet burlap, plastic sheets or a curing compound is highly recommended.

## APPLICATION

### Dispensing

**MasterPel 725** should be added separately to the initial batching water to ensure complete distribution throughout the mix. Use only drinkable water. Do not use sea water, bore water or water containing a high dissolved mineral content, for mixing concrete.

## DOSAGE

Recommended dosage rate is 450 - 550 ml per 100 kg of cementitious materials. For a higher degree of water-repellency, use 800ml per 100kg of cement.

## PACKAGING

**MasterPel 725** is available in 205L drums.

## SHELF LIFE

**MasterPel 725** can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

## PRECAUTIONS

**Health: MasterPel 725** does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this MBCC Group publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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