

# MAXBOND 100

## CONCRETE WATERPROOFING ADMIXTURE

### About The Product

**Maxbond 100** is a chloride free powder consisting of Portland cement, very fine treated silica sand and various active chemicals. Mixed into concrete to become an integral part of the structure, Maxbond 100 reacts with incoming moisture and cement hydration to form non-soluble crystalline structures which permanently seals pores and capillary tracts, blocking the passage of water in all directions.

### Design Features

- Resists extreme hydrostatic pressure over 5 bars.
- Can seal hairline cracks up to 0.4mm.
- Protects concrete and steel reinforcements from aggressive chemicals and corrosion.
- Compatible with green materials such as slag powder, fly ash, silica fumes, etc.
- Suitable for use in structures for potable water.
- Cost effective and time saving installation.
- Integral and permanent waterproofing system.
- No detrimental effect to concrete performance

### It's Uses

- Basement and sub-structure
- Dams and reservoirs
- Driveway slab
- Marine structures
- Tunnels and utility trench
- Tanks, water feature and pools
- Precast elements
- Stadiums
- Bunkers

### Performance Data

Test	Value*
Suitability pH Range	3 to 11
Water Penetration	<20mm
Water Permeability	<5.0 x 10 <sup>-13</sup>

### Setting Time and Strength

The setting time of concrete is affected by climatic conditions and the chemical and physical composition of ingredients and temperature of the concrete. Maxbond 100 is designed to have minimal or no effect on setting time. Concrete with Maxbond 100 may develop higher ultimate strength.

### Dosage

Maxbond 100 at 0.8 to 1.0% of Cement (by weight)

Do not add dry Maxbond 100 powder to wet mixed concrete.

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### Mix Design

Trial mixes with the recommended dosage should be carried out under project conditions to establish the mix design.

Conduct slump measurement and extract test cubes to determine setting time and compression strength are within compliance.

On successful completion of trail mixing, issue approved mix ratio and follow dosage accordingly.

### Dosage on Site (Recommended)

Disperse the required amount of Maxbond 100 powder into the mixing drum of the truck and spin at high speed for at least 5 minutes before dispensing the mixture.

### Dosage to Batching Plant (Alternative)

Add Maxbond 100 powder to sand and aggregates and blend thoroughly for several minutes before the addition of cement and water.

Blend total concrete mix according to standard batching practice to ensure thorough dispersal and homogenous mixture.

### Limitations

When adding Maxbond 100, the temperature of concrete mix must be above 5°C.

### Site Requirement

Concrete placement area must not have any active leaks and be free of standing water.

Construction joints, pipes, posts and other penetrations shall be fitted with competent water-bars.

Pouring and curing of concrete shall follow standard practice of concreting.

### Packaging

20kg Bag

### Storage & Shelf Life

Keep elevated in dry, moisture free condition. Can be stored for 12 months in sealed original packaging.

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### Health & Safety

Prevent contact with skin and wear waterproof gloves and goggles when handling. Upon contact with skin, wash with soap and water. In case of eye contact, flush with water and seek medical attention immediately.

Note The information in this publication is given in good faith and is based on our current knowledge and experience.

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All information herein is effective from the date of issue and supersedes all previous editions.

\* Values are typical and not meant as performance benchmark.