

# MasterPel<sup>®</sup> 730

## Hydrophobic pore- blocking ingredient for watertight concrete

### DESCRIPTION

**MasterPel 730** is a hydrophobic pore-blocking ingredient (H.P.I) for concrete. It significantly reduces water absorption of concrete.

**MasterPel 730** is a chloride free organic admixture and supplied as a colourless, clear to slightly cloudy viscous liquid. It reacts with the cement hydration process to form a hydrophobic ingredient to reduce the capillary suction and prevent the ingress of potentially deleterious soluble material, resulting in concrete with enhanced durability.

### RECOMMENDED USES

**MasterPel 730** is suitable for any concrete structure, which requires water tightness, such as:

- Basement walls and floors
- Tunnels / underpass
- Foundations, piles and pile caps
- Water retaining structures, swimming pool, water tanks, reservoirs, water towers
- Land drainage, manholes
- Reinforced concrete in marine environment subject to tidal and wet / dry cycling
- Waste water treatment and desalination plant

### FEATURES AND BENEFITS

- Increased durability and water tightness
- Protection is maintained throughout the concrete matrix
- Environment friendly
- Compatible with surface coatings and finishes

### PERFORMANCE TEST DATA

Aspect	: Free Flowing liquid
Relative Density	: 1.02 ± 0.02 at 25°C
pH	: 12.5±1
Chloride ion content	: ≤ 0.1%
Water Absorption at 28 Days (BS 1881:122)	: < 1 %

### TEST CERTIFICATION / APPROVALS

- EN 934–2 Table 9

### DOSAGE

The optimum dosage for **MasterPel 730** to meet a specific requirement should always be determined by trial mixes.

Recommended dosage is 1.0 to 2.0 litres per 100 Kg of cement. Other dosages may also be used depending on the specific requirements. Contact your local Master Builders Solutions representative for assistance in determining dosage.

### APPLICATION

**MasterPel 730** 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 of content, for mixing concrete. Based on the quantity of **MasterPel 730** added, reduce an equal amount of water from the mix.

### Curing

Like all cementitious product, concrete made with **MasterPel 730** must be protected against rapid drying due to high temperature and /or strong wind.

The use of wet burlap, plastic sheets or a curing compound is highly recommended.

### SUGGESTED SPECIFICATION

The hydrophobic pore-blocking admixture for concrete shall be **MasterPel 730**, a free flowing liquid with relative density of 1.02. The product must have alkaline pH in the range of 12 to 13.

### COMPATIBILITY

The Compatibility of **MasterPel 730** with admixtures have to be checked prior to use. Type A & F admixtures are recommended to be used however please consult local Master Builders Solutions representative.

### PACKAGING

**MasterPel 730** is available in 20 & 210 litre drums.

### STORAGE /SHELF LIFE

MasterPel 730 can be kept for 12 months from date of manufacture if stored in well protected area away from sunlight, at ambient temperature in dry conditions

Failure to comply with the recommended storage conditions may result in premature deterioration of

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the product or packaging. For specific storage advice consult your local Master Builders Solutions representative.

### PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet.

**TDS Ref. no.: MasterPel730/03/0915**

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#### **STATEMENT OF RESPONSIBILITY (Disclaimer)**

The technical information and application advice given in this Master Builders Solutions 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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#### **NOTE**

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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