

# MasterLife WP 730

## Hydrophobic pore-blocking ingredient for watertight concrete

### MATERIAL DESCRIPTION

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

**MasterLife WP 730** is a chloride free organic admixture and supplied as a clear to slightly cloudy 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.

### APPLICATIONS

**MasterLife WP 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

Very low water absorption	Increased durability and water tightness.
Integral system	Protection is maintained throughout the concrete matrix.
Ammonia free	Environment friendly. Fully compatible with certain surface coating and finishes.

### PACKAGING

**MasterLife WP 730** is available in 210 litre drums, 1000 litre IBCs or in bulk.

### TYPICAL PROPERTIES\*

Properties listed are for guidance and are not a guarantee of performance.

Appearance	Clear to slightly cloudy
Specific gravity @25°C	1.000 -1.030
Chloride content	"chloride-free" to EN 934-2
Water absorption at 7 days (BS 1881 : 122)	<1%

### STANDARDS

EN 934-2: Table 9

### DISPENSING

**MasterLife WP 730** should be added separately to the initial batching water to ensure complete distribution throughout the mix. Use only drinkable water - do not use seawater, bore water or water containing a high dissolved mineral of content, for mixing concrete.

### DOSAGE

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

Typical dosage rate is 1.0 to 2.0 litres per 100kg of cement. Other dosages may also be used depending on the specific requirements.

Consult local Master Builders Solutions field representative for assistance in determining dosage.

### CURING

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

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

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### SHELF LIFE

**MasterLife WP 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.

### COMPATIBILITY

**MasterLife WP 730** should not be pre-mixed with other admixtures. MasterPozzolith, MasterRheobuild or MasterGlenium admixtures used in concrete containing **MasterLife WP 730** must be dispensed separately.

Consult Master Builders Solutions' Technical Services Department for advice.

### PRECAUTIONS

For health, safety and environmental recommendations, please consult and follow all instructions on the Material Safety Data Sheet.

### NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions

South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

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### QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory controlled tests.

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