

MasterLife[®] WP 730S

Hydrophobic pore-blocking ingredient for watertight concrete

DESCRIPTION

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

MasterLife WP 730S 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.

TYPICAL APPLICATIONS

MasterLife WP 730S is suitable for any concrete structure, which requires watertightness, 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

ADVANTAGES

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 730S is supplied in 210 L drums and 1,000 L container.

STANDARDS

EN 934-2 Table 9

TYPICAL PROPERTIES*

Supply form	Liquid
Colour	Colourless, clear to cloudy
Chloride content	"chloride-free" to EN 934
Water absorption at 7 days (BS 1881: 122)	<1%

APPLICATION GUIDELINES

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

Typical dosage rate is 0.5 - 1.0 L/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.

MIXING

MasterLife WP 730S 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.

MasterLife WP 730S should not be pre-mixed with other admixtures. **MasterPozzololith**, **MasterRheobuild** or **MasterGlenium** admixtures used in concrete containing **MasterLife WP 730S** must be dispensed separately. Consult Master Builders Solutions Technical Services Department for advice.

CURING

Like all cementitious products, concrete made with **MasterLife WP 730S** 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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STORAGE AND SHELF LIFE

MasterLife WP 730S 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.

HEALTH AND SAFETY

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

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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.

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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