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# MasterLife® 300D

Crystalline capillary waterproofing admixture

## DESCRIPTION

**MasterLife 300D** admixture is an integral crystalline capillary waterproofing admixture for concrete. It is designed for use in above and below grade applications.

## RECOMMENDED USES

- Sewage and water treatment plants
- Liquid retaining structures
- Water reservoirs and tanks for potable water
- Swimming pools
- Foundations, basements, lift pits, podiums, balconies and roofs
- Parking structures
- Precast, prestressed and post-tensioned concrete
- Culverts
- Blockfill
- Tunnel and subway systems
- Shotcrete
- Concrete subjected to wet, harsh and aggressive environments

## BENEFITS

- Integral addition for optimum performance
- Reduces concrete permeability
- Allows concrete to breathe
- Reduces penetration of water and other liquids
- Seals hairline cracks
- Resists positive and negative side hydrostatic pressure
- Protects against sewage and industrial wastes

## PERFORMANCE CHARACTERISTICS

### Permeability

**MasterLife 300D** capillary waterproofing admixture is a Portland cement-based crystalline cementitious material that reacts in concrete to form non-soluble crystalline hydration products in the capillary pores of the concrete. These crystalline hydration products effectively reduce the permeability of concrete thus reducing capillary absorption and the penetration of water and other liquids.

### Certification for use with Potable Water

**MasterLife 300D** is certified by NSF to NSF/ANSI Standard 61 – Drinking Water System Components – Health Effects, and therefore it is suitable for use in properly cured concrete structures in contact with potable water.

### Typical data for MasterLife 300D admixture @ 2% by weight of cement

Performance characteristic	Test Method	Performance relative to untreated concrete mixture
Capillary absorption	ASTM C 1585	43% reduction
Water penetration	Modified DIN 1048	40% reduction
Moisture vapour emission rate	ASTM F 1869	Same
Electrical conductance	ASTM C 1202	Same
Compressive strength	ASTM C 39/C 39M	7% increase

## APPLICATION

### Dispensing & Mixing

**MasterLife 300D** admixture is batched at the concrete production plant in a manner similar to that for cement or other cementitious materials. It may be batched in either a central or truck mixer. Provide at least 5 minutes of agitating after the addition of **MasterLife 300D** admixture to ensure thorough and uniform distribution of the admixture in the concrete mixture.

### DOSAGE

The dosage for **MasterLife 300D** admixture is 2% by weight of binder.

### COMPATIBILITY

**MasterLife 300D** admixture can be used with Portland cements approved under Australian and New Zealand standards. It is compatible with most concrete admixtures, including all BASF admixtures. **MasterLife 300D** admixture is recommended for use with high-range water reducing admixtures, such as the MasterGlenium series, for maximum workability while maintaining a low water/binder ratio.



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## REPAIRS

To repair and seal cracks in concrete and mortars treated with **MasterLife 300D** the use of **MasterSeal 501** is recommended. **MasterSeal 502** is a crystalline re-profiling render, which can be used in conjunction with **MasterSeal 501** for patch repairs and as render on old concrete surface.

## CORROSIVITY

Non-chloride, non-corrosive: **MasterLife 300D** admixture will neither initiate nor promote corrosion of reinforcing or pre-stressing steel embedded in concrete or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of **MasterLife 300D** admixture.

## PACKAGING

**MasterLife 300D** admixture is available in 4 x 4 kg dissolvable bags packed in a pail.

## STORAGE

**MasterLife 300D** admixture must be stored in a clean, dry area maintained at a minimum temperature of 7 °C. **MasterLife 300D** admixture has a shelf life of 12 months when stored under recommended conditions.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Safety Data Sheet (SDS) from BASF office or our website.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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