

MasterSeal[®] 730PA

Pre-applied waterproofing membrane for below grade waterproofing

DESCRIPTION

MasterSeal 730PA is a tough HDPE membrane treated with a unique Pressure Sensitive Adhesive to enable good adhesion with freshly poured concrete surfaces and has a Dual Lap Seal, having adhesive on both side of overlaps for dual adhesive lap sealing seam. The pressure sensitive adhesive matrix offers weather resistance during the casting process. **MasterSeal 730PA's** Pressure Sensitive Adhesive and Dual Lap Seal forms a unique integral seal around the concrete poured against it. **MasterSeal 730PA** remains fully adhered to concrete helping retain its performance even there is ground settlement beneath the slabs.

TYPICAL APPLICATIONS

MasterSeal 730PA is intended for use in below grade waterproofing applications such as basements with high water table and cut & cover tunneling to prevent seepage and migration of water.

ADVANTAGES

- Fully adhered to poured concrete – prevents water migration
- Unaffected by wet conditions – enables application in high water table areas
- Unaffected by contamination – does not require any special protection during construction
- Placing of reinforcement can commence immediately after installation of waterproofing
- Simple and easy to install – does not require special welding techniques
- The release liner provides temporary protection prior to subsequent works
- Chemically resistant – can be used in all soil and subsoil conditions
- Resistant to Methane and Radon gas
- Fully adhered Dual Lap Seal seams – ensures watertightness.
- Long service life

PACKAGING AND ROLL SIZES

MasterSeal 730PA is supplied in rolls of 20 m with a width of 1.2 m and membrane thickness of 1.2 mm.

TYPICAL PROPERTIES*

Elongation ASTM D412	500% Minimum
Tensile strength ASTM D412	> 28 N/mm ²
Puncture resistance ASTM E154	> 1000 N
Resistance to impact EN 12691	750 mm
Resistance to static loading EN 12730	≥ 20 kg
Peel adhesion to concrete ASTM D903	> 2.5 N/mm
Lap adhesion ASTM D1876	> 2.0 N/mm
Lap shear strength EN 12317-2	≥ 14.5 N/mm
Low temperature flexibility ASTM D1970	Unaffected at -29°C
Water Vapor Permeance in ASTM E96 Perm (inch-lb)	< 0.146 ng/Pa.S.m ²
Water Absorption in % as per ASTM D570-98(2010)	< 0.5
Methane gas permeability and Radon gas resistance	pass
Resistance to hydrostatic head ASTM D5385 modified	>70 m
Durability and watertightness after exposure to chemicals at 60 kPa EN 1847	pass
Storage in Aqueous Solutions as per DIN 16726	
• Tensile Strength Retention	90%
• Puncture Resistance Retention	90%
• Elongation Retention	90%

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

APPLICATION GUIDELINES

SURFACE PREPARATION

It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids. Grout around all penetrations and for stability.

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Horizontal blinding - The blinding must be free of loose aggregate and sharp protrusions. The surface does not need to be dry but standing water should be removed.

Vertical surfaces - Use proper facing such as concrete, plywood to sheet piling to provide proper support to the membrane.

PLACING / APPLICATION

The detailed installation of the membrane can be referred from installation manual. Contact our Master Builders Solutions representative for further support.

Membrane repair

Inspect the membrane before placing the formwork, steel reinforcement or pouring of concrete. If any damages are found in the membrane the same shall be repaired with tapes from our **MasterSeal** brand.

Pouring of concrete

Ensure the plastic liner is removed before the concrete is poured. It is recommended that concrete is poured within 60 days. Care should be taken to avoid any damage to the membrane during the consolidation and compaction of concrete.

STORAGE

Stored in original containers, under dry conditions and at temperature between 10-30°C.

HEALTH AND SAFETY

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 Master Builders Solutions Material Safety Data Sheet (MSDS) from our office or our website.

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

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