

# MasterSeal<sup>®</sup> 730 PA

**Pre-Applied Fully Bonded HDPE Waterproofing Membrane for below grade waterproofing**

## DESCRIPTION

**MasterSeal 730 PA** is a HDPE membrane treated with unique pressure sensitive adhesive and a state of the arts top film which enable good chemical adhesion with concrete surface.

**MasterSeal 730 PA** forms a unique integral seal around the concrete poured against it, prevents water ingress even under high hydrostatic pressure and prevents lateral water migration as well.

**MasterSeal 730 PA** remains fully adhered to concrete helping retain its performance even there is ground settlement beneath the slabs

## RECOMMENDED USES

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

## FEATURES AND BENEFITS

- **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 – can be easily cleaned with water and high-pressure air
- **Simply and Easy to Install** – Does not require special welding techniques
- **Chemically resistant** – Can be used in all Soil and Subsoil conditions
- **Fully adhered watertight laps** – Ensures water tightness

## PERFORMANCE DATA

Elongation (%) ASTM D 412	≥500
Tensile Strength, MPa ASTM D 412	≥25
Puncture Resistance, N ASTM E 154 Modified	≥1000
Low Temperature Flexibility at -25°C, ASTM D 1970	Pass
Peel Adhesion to Concrete	≥2.4
Peel Adhesion, heat aged Surface (70°C) (N/mm) ASTM D 903 Modified	≥2.0

Nail Shank Resistant (N) EN12310-1	≥ 500
Resistance to Hydrostatic Head,(m) ASTM D 5385 Modified	71
Lateral water migration resistance (m), 23°C, ASTM D 5385 modified	71
Lap Peel Adhesion, (N/mm,23°C), Lap Peel Adhesion, after immersing water(N/mm,23°C) ASTM D1876 modified	1.0 1.0
Dimensional Stability, % SS 374-1994	≤ 0.5
Storage in Aqueous Solutions as per DIN 16726	
Tensile Strength Retention	≥90%
Puncture Resistance Retention	≥90%
Elongation Retention	≥90%
Lap	
Lap peel to HDPE sheet (N/mm, 23°C)	≥ 1.0
Lap peel to HDPE sheet (N/mm,4 °C)	≥ 1.0

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.

## PROPERTIES

<b>MasterSeal 730 PA</b>	
Thickness * Width	1.2mm*1.2m
<b>MasterSeal 936<sup>1</sup></b>	
Thickness * Width	0.3mm*80mm
<b>MasterSeal 937<sup>2</sup></b>	
Thickness * Width	0.3mm*120mm

1. **MasterSeal 936** is a double side sticky tape used for used for specialized detailing at membrane terminations.
2. **MasterSeal 937** is a single side sticky tape used for overlaps and repair of membrane.

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## APPLICATION

### 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

**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.

### Installation

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 **MasterSeal 937**

### 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.

Additionally, during placement of concrete, the vibrator needle should not touch the placed HDPE membrane. For best results use Master Builders Solution Smart Dynamic Concrete

## PACKAGING

**MasterSeal 730 PA** is supplied in Rolls of 20m length and width of 1.2 m. Each Roll consists of 24 Sq.m of membrane.

**MasterSeal 936** is supplied in rolls of 50m length and 80mm width.

**MasterSeal 937** is supplied in rolls of 50m length and 120mm width.

## SHELF LIFE

Twelve months if stored in original containers under dry conditions at a temperature between 10-30° C. Do not store in direct sunlight for more than 3 days.

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

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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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