

MasterSeal® 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 Peel Adhesion, heat aged Surface (70°C) (N/mm) ASTM D 903 Modified	≥2.4 ≥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

MasterSeal 730 PA	
Thickness * Width	1.2mm*1.2m
MasterSeal 936¹	
Thickness * Width	0.3mm*80mm
MasterSeal 937²	
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

It is highly recommended to use necessary PPE (Gloves, mask etc.,) during installation of the product. In case of Incidents of direct inhalation, causing dizziness/giddiness, loss of consciousness, contact with eyes etc, seek immediate medical advice. The requirements may vary depending on the application areas. Please ensure to have proper ventilation while working in confined areas. Contact Master Builders Solutions representative in case you need further details or refer to the material safety datasheet of the product to know more.

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STATEMENT OF RESPONSIBILITY (Disclaimer)

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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