

# MasterSeal<sup>®</sup> 730PA

## Pre-applied waterproofing membrane for below grade waterproofing

### DESCRIPTION

**MasterSeal 730PA** is a HDPE membrane treated with unique pressure sensitive adhesive to enable good adhesion with concrete surfaces. **MasterSeal 730PA** 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.

### RECOMMENDED USES

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

### FEATURES & 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.
- Simple 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.

### PACKAGING AND ROLL SIZES

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

### TYPICAL PROPERTIES\*

Elongation ASTM D412	≥ 1000%
Tensile strength ASTM D412	≥ 30N/mm <sup>2</sup>
Puncture resistance ASTM E154	≥ 990N
Peel adhesion to concrete ASTM D903	≥ 3.5N/mm @25°C > 4.5N/mm @70°C
Low temperature flexibility ASTM D1970	Unaffected at -29°C
Lap Adhesion in ASTM D 1876	≥ 0.8N/MM
Water Vapor Permeance in ASTM E 96 Perm (inch-lb)	≤ 0.146 ng/Pa.S.m <sup>2</sup>
Water Absorption in % as per ASTM D570-98(2010)	≤ 0.5

Resistance to hydrostatic head ASTM D5385 modified	≥70m
Storage in Aqueous Solutions as per DIN 16276	
• 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 PROCEDURE

#### 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.

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## Installation

The detailed installation of the membrane can be referred from installation manual. Contact our BASF 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.

## SHELF LIFE

Shelf life is 12 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 BASF Material Safety Data Sheet (MSDS) from our office or our website.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals representative.

BASF reserves the right to have the true cause of any liability determined by accepted test methods.

## QUALITY AND CARE

All products originating from BASF's 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, ISO 14001 and ISO 45001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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## STATEMENT OF RESPONSIBILITY

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## NOTE

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