

MasterSeal 730PA

Pre-applied waterproofing membrane for below grade waterproofing

Material 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.

Areas of Application

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

Characteristics & 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

Properties

Elongation ASTM D412	≥500%
Tensile strength ASTM D412	≥25 MPa
Puncture resistance ASTM E154 Modified	≥1000N
Peel adhesion to concrete ASTM D903 Modified	≥2400N/mm
Low temperature flexibility ASTM D1970	Unaffected at -25°C

Resistance to hydrostatic head ASTM D5385 modified	≥70m
Storage in Aqueous Solutions 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.

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

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.



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Installation

The detailed installation of the membrane can be referred from installation manual. Contact Master Builders Solutions further information.

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 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.

Packaging

MasterSeal 730PA is supplied in rolls of 20m with a width of 1.2m and membrane thickness of 1.2mm. Each roll consists of 24m² of membrane.

Disclaimer

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