MasterSeal® 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.

TYPICAL APPLICATIONS

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

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
• 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 20 m with a width of 1.2 m and membrane thickness of 1.2 mm.

TYPICAL PROPERTIES*

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elongation ASTM D412</td>
<td>≥ 1000%</td>
</tr>
<tr>
<td>Tensile strength ASTM D412</td>
<td>≥ 30 N/mm²</td>
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<tr>
<td>Puncture resistance ASTM E154</td>
<td>≥ 990 N</td>
</tr>
<tr>
<td>Peel adhesion to concrete</td>
<td>≥ 3.5 N/mm @25°C</td>
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<tr>
<td></td>
<td>≥ 4.5 N/mm @70°C</td>
</tr>
<tr>
<td>Low temperature flexibility</td>
<td>Unaffected at -29°C</td>
</tr>
<tr>
<td>ASTM D1970</td>
<td></td>
</tr>
<tr>
<td>Lap Adhesion in ASTM D 1876</td>
<td>≥ 0.8 N/mm</td>
</tr>
<tr>
<td>Water Vapor Permeance in ASTM E 96 Perm (inch-lb)</td>
<td>≤ 0.146 ng/Pa.S.m²</td>
</tr>
<tr>
<td>Water Absorption in % as per ASTM D570-98(2010)</td>
<td>≤ 0.5</td>
</tr>
<tr>
<td>Resistance to hydrostatic head ASTM D5385 modified</td>
<td>≥70 m</td>
</tr>
<tr>
<td>Storage in Aqueous Solutions as per DIN 16276</td>
<td></td>
</tr>
<tr>
<td>• Tensile Strength Retention</td>
<td>90%</td>
</tr>
<tr>
<td>• Puncture Resistance Retention</td>
<td>90%</td>
</tr>
<tr>
<td>• Elongation Retention</td>
<td>90%</td>
</tr>
</tbody>
</table>

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.

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.
MasterSeal® 730PA

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.

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 BASF Material Safety Data Sheet (MSDS) from our office or our website.

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.
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