

Technical Data Sheet

No.	Property	Value	Test Method		
1	Thickness/mm	≥1.2	EN1849-2:2009		
2	Tensile Properties	Tensile Force (N/50mm)	Longitudinal	≥600	EN 12311-2:2013 (Method A)
			Transverse	≥600	EN 12311-2:2013 (Method A)
	Elongation at Rupture /%	Longitudinal	≥500	EN 12311-2:2013 (Method A)	
		Transverse	≥500	EN 12311-2:2013 (Method A)	
3	Resistance to tearing (N)	Longitudinal	≥250	EN 12310-2:2018	
		Transverse	≥250	EN 12310-2:2018	
4	Shear Resistance of Joints(N/50mm)	≥300	EN 12317-2:2010		
5	Resistance to Static Loading(kg)	20	EN 12730-2015		
6	Resistance to Impact(mm)	1500	EN 12691:2018		
7	Foldability at Low Temperature	Without failure at -30°C	EN 1109:2013		
8	Water-tightness	There is no pressure drop more than 5% of the initial value	EN 1928:2000		
9	Water-tightness after Thermal Aging	There is no pressure drop more than 5% of the initial value	EN 1928:2000 EN 1296:2001		
10	Water-tightness after Chemical Aging	There is no pressure drop more than 5% of the initial value	EN 1928:2000 EN 1847:2010		



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FORFENS

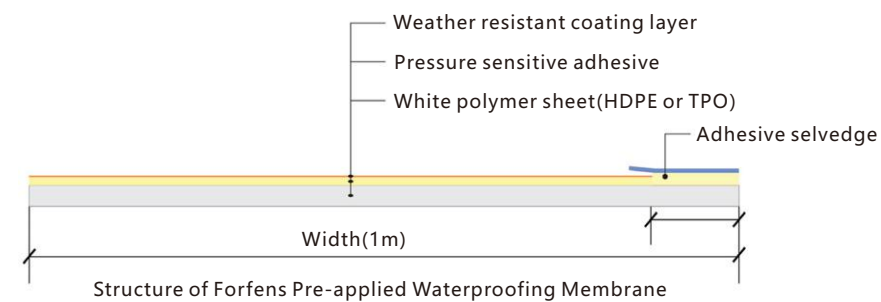
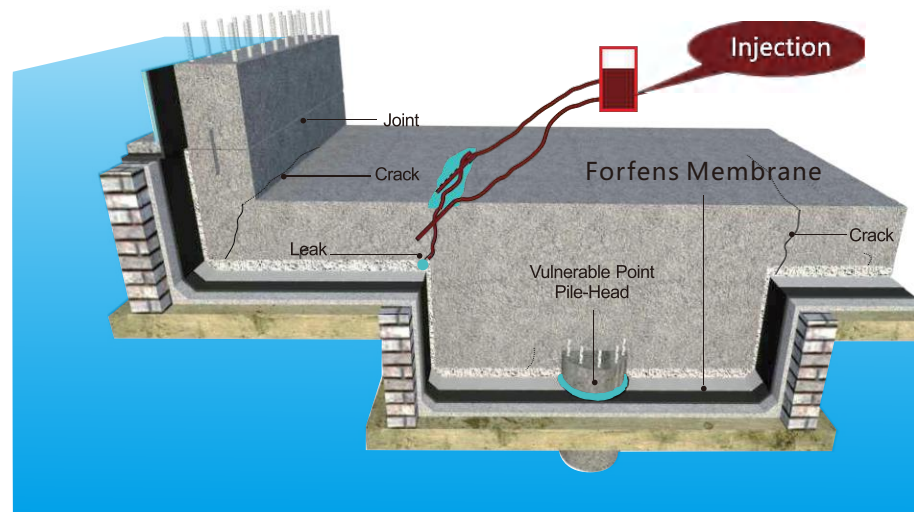
Pre-applied waterproofing membrane
 Highly flexible. perfect bonding to freshly poured concrete



Product Description

CANLON brand Forfens Pre-applied Waterproofing Membrane is composed of white polymer sheet (HDPE or TPO), pressure sensitive adhesive, and weather resistant coating layer. This unique coating layer is a developed organic chemical, which can react with the post-cast concrete as it cures so as to form an effective bonding between the membrane and the concrete. Meanwhile, the coating layer is anti-stick as well as effectively protects the pressure sensitive adhesive layer.

Effective connections on selvage overlaps can also be achieved in harsh jobsite conditions (such as rain, water, low temperature, etc.). The installation of membrane adopts the pre-applied method, which can realize full bonding with the post-cast concrete and prevent water migration.



Application

Applied either horizontally to smoothly prepared concrete substrate and compacted earth or crushed stone substrate; or vertically to permanent formwork. Concrete is then cast directly against the adhesive side of the membranes.

Forfens Membrane is used for the waterproofing of exterior basement walls, foundations, floor plates, etc. The same product is suitable for vertical and horizontal areas. Forfens Membrane is usable against pressurized water.

- Waterproofing to basements of industrial and civil engineering.
- Pre-applied waterproofing system for walls, tunnels and subways.



Advantages

- White sheet with non-recycled HDPE or TPO (pellets) as raw materials --easy to identify whether or not add inferior recycled materials.
- Comparing with traditional membrane, Forfens weight decreases at least 40%, making delivery cost decreased significantly.
- Pressure sensitive adhesive with excellent physical properties of initial adhesion, cohesive force and peel strength.
- Resistant to weather conditions--the specially formulated surface coating ensures that self-adhesive properties withstand up to 49 days of UV exposure, rain water, dirt and contaminants, etc.
- Good dimensional stability-- dimensional variation rate does not exceed 0.5%, with smaller wrinkles comparing to similar products.
- Resistant against impact and puncture, effectively reduces the possibility of membrane being destroyed during installation.
- High resistance to chemicals such as acid, alkali and salt, protects the membranes in most areas of alkaline land or acid rain.

Installation

Substrate Preparation

The surface must be sound, even, stable and clean with no protrusions, gaps, joints or voids greater than 10 mm. To prevent movements of penetrations such as pipe penetrations for water and electricity during concrete pour and membrane installation, they have to be fixed and stabilized. Damaged concrete should be renovated with MBP Multi Mortar and sharp edges be removed first.

Material- horizontal application

MBP-Pro Pre-applied Waterproofing Membrane must be placed with weather resistant coating layer facing the concrete pour and the white polymer sheet facing the substrate. The overlapping between the membranes is 75 mm. Before removing the plastic release liner (on adhesive selvage) ensure that the membrane's overlapping selvage is positioned correctly and the underside of the succeeding sheet clean prior to overlapping. Then start removing of plastic release liner to bond the membranes together. Use a heavy roller to ensure a complete perfect bonding between the membranes. Then go ahead with removing of plastic release liner and press membranes together.

Material-vertical application

MBP-Pro Pre-applied Waterproofing Membrane must be fixed mechanically to the substrate by using fixing tools. These fixings must have a low profile head so that the membrane won't be damaged from the fixings. The overlapping between the membranes is 75 mm. Before removing the plastic release liner (on adhesive selvage) ensure that the membrane's overlapping selvage is positioned correctly and the underside of the succeeding sheet clean prior to overlapping. Then start removing of plastic release liner to bond the membranes together. Use a heavy roller to ensure a complete perfect bonding between the membranes. Then go ahead with removing of plastic release liner and press membranes together.

End laps overlapping

For butt joint of end laps, apply MST Detail Strip centered over center of the butt joint with the adhesive surface facing up and roll firmly. For overlapping the end laps, apply MST Double Side Tape centered over the edge of the overlap and ensure the tape be rolled firmly.

Repairs before concrete placement

In case of damaging the MBP Pro Membrane during installation of formwork and reinforcement steel placement, repair damage by applying the MST Sanded Tape centered over the damaged area prior to the concrete pour. Apply PUS Polyurethane Sealant for sealing around penetrations, joint processing such as expansion joint.

Pouring of concrete

Ensure that all overlapping areas are sealed and the release liner is removed in that area. Do not damage the membrane during pouring of concrete.

Formwork removal

It is very important not to remove formwork until the concrete has sufficient compressive strength to develop the required adhesion with MBP-Pro Membrane. Too early removal of all formworks can lead to a displacement to MBP Pro Pre-applied Waterproofing Membrane or concrete damage. A minimum concrete compressive strength of 10N/mm² recommended prior to removing formwork.

