

MasterSeal[®] 754

Pre-Applied FPO Waterproofing Membrane for Below Ground Concrete Structures

DESCRIPTION

MasterSeal[®] 754 is a pre-applied sheet membrane self-sealing system for a fast and simple installation process without the need of chemical based construction sealants. This unique system provides a durable mechanical bond, which is created when the fleece is completely adhered to the fresh concrete. **MasterSeal[®] 754** is cold-applied and pre-applied, as it is installed without heat or open flames, and before the steel reinforcement is placed and the concrete is poured.

FIELDS OF APPLICATION

- Below grade concrete slabs
- Below grade walls with both single (blindsiding forming)
- For prefabricated construction

FEATURES AND BENEFITS

- No need protection screed.
- Provides excavation, time and labor savings.
- Fast installation: layout, jointing and detailing.
- Weather resistant
- No lateral water migration in the event of damage.
- Overlapping areas are self-adhesive. No need any extra tape to overlap.
- High elasticity at low temperatures.
- It is resistant to 5 bar water pressure according to DIN EN 928
- It is resistant to 100 psi (6,9 bar) water pressure according to ASTM D 5385-93
- High mechanical impact resistance.
- Reduced membrane joints with wider rolls.
- Resistant to aggressive mediums in soil.

APPLICATION PROCEDURE

Surface Preparation

Application substrate of the lean concrete must be free from such as stone, soil, oil. There must not be any puddles on the application surface. Before application of the membrane under the foundation, the entire application area must be covered with a minimum of 200 g / m² of geotextile. There is no need for geotextile in R.C. wall applications.

Application

MasterSeal[®] 754 is applied on geotextile felt in horizontal applications. The protective foil in the joints is removed. So that the membrane is adhered in overlapping joints. After all surfaces are covered with **MasterSeal[®] 754**, all overlap and joint points must be checked.

Application Notes

MasterSeal[®] 754 can be stored for up to 4 weeks under direct sunlight in outside storage.

COVERAGE

In order to calculate total consumption of synthetic waterproofing membranes, it must be added quantity of 10% overlapping and %2-3 of loss depending upon the project conditions on the total application area.

PACKING AND ROLL SIZES

Width (m)	1,0
Length (m)	20,0

STORAGE

MasterSeal[®] 754 membrane must be stored properly in unopened, undamaged, original packaging, in a horizontal position, in dry conditions and at temperatures between +5°C and +30°C.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions.

HEALTH AND SAFETY PRECAUTIONS

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Food, drink and cigarette must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

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TECHNICAL DATA

Property	Standard	Data
Description	-	FPO (Flexible Polyolefine)
Material Composition	-	<u>Membrane:</u> Flexible Polyolefine <u>Coverage:</u> modified Polypropylene needle-punch non-woven <u>Self-adhesive strip:</u> Butyl rubber, highly elastic, resistant to ageing and release liner
Colour	-	Grey/Black
Total Width	-	1000 mm
Non-woven Width	-	900 mm
Butyl Width	-	100 mm
Length Per Roll	-	20 m
Total Thickness		1,6 / 1,8 mm (±0,2 mm)
Thickness (Waterproofing membrane)	DIN EN 1849-2	0,8 / 1 mm (±0,09 mm)
Total Weight (without butyl)	-	850 / 1150 gr/m ² (±75 gr/m ²)
Resistance to Temperature	-	-30°C / +60°C
Tear Resistance - Longitudinal	DIN EN 12311-2 Method A	400 N / 50 mm
Tear Resistance - Lateral	DIN EN 12311-2 Method A	340 N / 50 mm
Elongation at Break - Longitudinal	DIN EN 12311-2 Method A	%90
Elongation at Break - Lateral	DIN EN 12311-2 Method A	%120
Tear Resistance (Nail Shank)- Longitudinal	DIN EN 12310-1	370 N
Tear Resistance (Nail Shank) - Lateral	DIN EN 12310-1	380 N
Water Vapour Permeability	DIN EN 1931 Method B	60 m
Water Tightness	DIN EN 1928-A-60 kPa/24 std. DIN EN 1928-A-400 kPa/72 std.	watertight watertight
Resistance to Impact	DIN EN 12691	A-Alu plate ≤250 mm B-EPS Panel ≤2000 mm
Shear Resistance of The Joint Seams	DIN EN 12317-2	≥150 N/50 mm
Resistance to Static Loads	DIN EN 12730	Method A-EPS Panel ≤20 kg Method B-Substrate concrete ≤20 kg
Deformation Under Load	DIN EN 14909-Annex B (static load 300t/m ²)	No damage of sealing function (FPO carrier film)
Hydrostatic Pressure	ASTM D 5385-93:2014	Pass (100 psi)
Puncture Resistance	ASTM D 4068-15 Annex A3	Pass
UV Resistance (Outside storing – direct sunlight)	-	Max. 4 weeks
Application Temperature	-	+5°C/+35°C
Reaction to Fire	DIN ISO 11925-2 and EN 13501	Class E
Quality Management	DIN EN ISO 9001:2015	Approved

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