

MasterSeal 754

Pre-applied FPO waterproofing membrane for below ground concrete structures

MATERIAL DESCRIPTION

MasterSeal 754 is a pre-applied sheet membrane waterproofing system consisting of highly flexible polyolefin membrane and a designed non-woven fleece. 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 APPLICATIONS

- Below grade concrete slabs.
- Below grade walls with both single (blindsided forming) and double-faced formwork (open cut).
- For prefabricated construction.
- Residential and industrial buildings such as housing, commercial, leisure facilities, manufacturing plants and warehouses.
- Engineered structures, such as retaining walls, tunnel galleries, potable water tanks, waste water storage treatment structures and tanks.

FEATURES AND BENEFITS

- No need for protection screed.
- Provides time and labor saving.
- Fast installation: layout, jointing and detailing.
- Weather resistant with temporary UV-stability during installation.
- No lateral water migration in the event of damage.
- Resistant to aggressive mediums in soil.
- Crack bridging ability.
- Overlapping areas are self-adhesive. No need for any extra tape to overlap.
- High elasticity at low temperatures.
- It is resistant to 5 bar water pressure.
- High mechanical impact resistance.

PACKAGING AND ROLL SIZES

MasterSeal 754 is supplied as 1.6mm thick, width of 1.0 meters and length of 20 meters.

COLOUR

Grey membrane / Black fleece

APPLICATION PROCEDURE

Synthetic waterproofing membranes applications should be done by approved applicators. For the further information please apply application manual.

Note: **MasterSeal 754** does not have UV resistance. The membrane can be exposed during the application of 3 months.

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.

STORAGE AND SHELF LIFE

MasterSeal 754 membrane rolls have a shelf-life of 12 months from date of production if stored properly in unopened, undamaged, original packaging, in a horizontal position, in dry conditions and at temperatures between +5°C and +30°C.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

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QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001,

environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

PHYSICAL AND CHEMICAL PROPERTIES*

Material composition	Membrane: FPO - flexible polyolefin Upper bonding layer: Polypropylene needle-punch non-woven Self-adhesive strip: Butyl rubber, high elastic, resistant to ageing and release liner	
Physical properties	Value	Tolerance
Total weight	850g/m ²	±75g/m ²
Resistance to temperature	-30°C to 60°C	
Tear resistance (lengthwise) DIN EN 12311-2 Method A	400N/50mm	≥300N/50mm
Tear resistance (across) DIN EN 12311-2 Method A	340N/50mm	≥250N/50mm
Elongation at break longitudinal DIN EN 12311-2 Method A	90%	≥75%
Elongation at break lateral DIN EN 12311-2 Method A	120%	≥85%
Tear resistance (nail shank) DIN EN 12310-1	370N	≥300N
Tear resistance (nail shank) DIN EN 12310-1	380N	≥300N
Water vapour permeability DIN EN 1931 Method B	60m	≥40m
Water tightness DIN EN 1928-A - 60kPa/24 Std.	watertight	
Water tightness DIN EN 1928-A - 400kPa/72 Std.	watertight	
Water migration test (non-woven area)	max 5 bar	
Reaction to fire DIN ISO 11925-2, EN 13501-1	Class E	
Chemical resistance	Resistant to a wide range of chemicals	
Approval	CE Marking according to DIN EN 13967 – Certificate No. 0761-CPR-0514	

DISCLAIMER

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