

MasterSeal[®] 754

Pre-applied FPO waterproofing membrane for below ground concrete structures

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.

TYPICAL 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

ADVANTAGES

- 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 GUIDELINES

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 / YIELD

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.

MasterSeal® 754

TYPICAL 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 (length-wise) 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 | |

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.

QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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