

MasterLife WP 754

FPO waterproofing membrane system for below ground concrete structures

Description

MasterLife WP 754 is a highly flexible polyolefin range of pre-applied and post-applied membranes. It also includes a range of ancillary tapes and preformed corners (see Product Details Table for more information). This unique membrane system provides a strong and durable bond when applied correctly to dry clean prepared surfaces of concrete or membrane.

It conforms to BS8102:2022 Type A.

MasterLife WP 754 is BBA approved under certificate number 21/5881.

Areas of Application

MasterLife WP 754 is suitable for:

- Below ground concrete slabs and walls with both single (blindsided forming) and double-faced formwork (open cut).
- For precast concrete construction can use MasterLife WP 754 PO and some ancillary tapes.

Characteristics and Benefits

MasterLife WP 754 offers the following benefits:

- No need for protection screed.
- Apply directly onto blinding or concrete base.
- Provides time and labour saving.
- Fast installation: layout, jointing and detailing.
- Weather resistant with temporary UV-stability during installation (it can be exposed during the application for up to 3 months).
- No lateral water migration in the event of damage.
- Resistant to aggressive mediums in soil.
- Crack bridging ability.

- Overlapping areas are self-adhesive by salve edge. 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.
- Low permeation rate to Methane.
- Low transmittance rate to Radon

Application Procedure

MasterLife WP 754 waterproofing membrane system installation should be done using approved applicators or under supervision/guidance from Master Builders Solution Technical support Team. For further information please contact us for the application guidelines manual.

Installation temperature range to apply MasterLife WP 754 to the substrate should be a minimum of 5°C and a maximum of 35°C.

Contact Details

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Product Details	Type	Description	Application	Packaging
MasterLife WP 754	Membrane	Pre-Applied sheet membrane waterproofing system consisting of highly flexible polyolefin membrane and a non-woven fleece on the blind side. The non-woven fleece forms a strong durable mechanical bond when the fleece is completely adhered to the freshly poured concrete.	It is installed before the steel reinforcement is placed and the concrete is poured. Each sheet can be joined to the next sheet via the 100mm salve edge or welded together.	1.6mm thick, width of 1.0 metre and length of 20 metre.
MasterLife WP 754 PO	Membrane	Post-Applied sheet membrane waterproofing system consisting of highly flexible polyolefin membrane with an adhesive backing. The adhesive forms a strong bond when installed correctly.	It is installed to a dry clean concrete surface. Each sheet can be joined to the next sheet via the 100mm salve edge or welded together.	1.6mm thick, width of 1.0 metre and length of 20 metre.
MasterLife WP 754 DT	Tape	Detailing Tape, part of the waterproofing system consisting of highly flexible polyolefin membrane tape with an adhesive backing. The adhesive forms a strong bond when installed correctly.	It is installed to dry clean concrete surfaces or membrane surfaces within the MasterLife WP 754 range. Can also be used to link MasterLife WP 754 membrane systems to other manufacturer's membranes.	1.6mm thick, width of 0.5 metre and length of 10 metre.
MasterLife WP 754 JT	Tape	Joint Tape, part of the waterproofing system consisting of highly flexible polyolefin membrane tape with an adhesive backing. The adhesive forms a strong bond when installed correctly.	It is installed to other dry clean membrane surfaces within the MasterLife WP 754 system range.	1.6mm thick, width of 20mm and length of 20 metre.
MasterLife WP 754 RT	Tape	Repair Tape, part of the waterproofing system consisting of highly flexible polyolefin membrane with a non-woven fleece on one side and an adhesive backing on the other. The non-woven fleece and adhesive forms a strong bond when installed correctly.	It is installed to either other dry clean membrane surfaces or damaged membrane within the MasterLife WP 754 system range.	1.6mm thick, width of 200mm and length of 20 metre.
MasterLife WP 754 PC	Tape	Pile Cap tape, part of the waterproofing system consisting of highly flexible polyolefin membrane with adhesive on both sides of the membrane tape. The adhesive forms a strong bond when installed correctly.	It is installed to dry clean concrete surfaces and/or membrane surfaces within the MasterLife WP 754 range.	1.6mm thick, width of 100mm and length of 10 metre.

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MasterLife WP 754 IC	Preformed corners	Inside Corner, part of the waterproofing system consisting of highly flexible polyolefin membrane. It is a pre-formed Inside Corner, with adhesive on the inside of the membrane. The adhesive forms a strong bond when installed correctly.	It is a preformed corner that is installed to dry clean membrane surfaces used with MasterLife WP 754.	25 pieces per box.
MasterLife WP 754 OC	Preformed corners	Outside Corner, part of the waterproofing system consisting of highly flexible polyolefin membrane. It is a pre-formed Outside Corner, with adhesive on the inside of the membrane. The adhesive forms a strong bond when installed correctly.	It is a preformed corner that is installed to dry clean membrane surfaces used with MasterLife WP 754.	25 pieces per box.

For further details contact Master Builders Solution technical department.

Product Data	
Appearance:	Grey membrane / Black fleece
Application temperature (substrate and material):	5°C to 35°C
Total weight:	850g/m ² ± 75g/m ² (MasterLife WP 754)
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):	Maximum 5-bar
Methane permeability – ISO 15105-2:2003	39.8 ml/m ² .day.atm
Radon transmittance (P) – RISE SP Method 3873	2.0x10 ⁻⁸ m/s
Reaction to fire DIN ISO 11925-2, EN 13501-1:	Class E
Chemical resistance:	Resistant to a wide range of chemicals

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Logistics	
Shelf life:	12 months if stored according to manufacturer's instructions in unopened, undamaged, original
Storage conditions:	Store in original sealed packaging and at temperatures between 5°C and 30°C. Store in horizontal position, on dry conditions and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Coverage:	To calculate total consumption of MasterLife WP 754 waterproofing membranes, an addition of at least 10% must be added to the overall calculation to include overlaps. Also include 2-3% of loss depending upon the project conditions over the total application area.
Handling and transportation:	Refer to MasterLife WP 754 Safety Data Sheet
Disposal:	Refer to MasterLife WP 754 Safety Data Sheet

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Disclaimer

MasterLife WP 754, Master Builders Solutions UK Ltd, Version 2

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.