

# MasterShield® WP 754

Pre-Applied FPO Waterproofing Membrane for Below Ground Concrete Structures

## Material Description

**MasterShield® WP 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. **MasterShield® WP 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.

## Areas of Application

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

## Characteristics 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.

## Processing Method

### (A) Preparation of Substrate

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 / m<sup>2</sup> of geotextile. There is no need for geotextile in R.C. wall applications.

### (B) Processing

**MasterShield® WP 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 **MasterShield® WP 754**, all overlap and joint points must be checked.

## Application Notes

**MasterShield® WP 754** can be stored for up to 4 weeks under direct sunlight in outside storage.

## Consumption

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.

## Packaging

Thickness (mm)	1,5
Width (m)	1,0
Length (m)	20,0

## Shelf Life

12 months after the production date under appropriate storing conditions.

## Storage

**MasterShield® WP 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. In long-term storing, the pallets must not be stowed on top of each other.

Part of

**MASTER®**  
**BUILDERS**  
SOLUTIONS

Group



# MasterShield® WP 754

Pre-Applied FPO Waterproofing Membrane for Below Ground Concrete Structures

## Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

## Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

## Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.  
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A No:26/8  
Sancaktepe, İstanbul  
Tel: 0216 561 35 45 www.mbt-tech.tr

Part of

**MASTER®**  
**»BUILDERS**  
SOLUTIONS

Group



# MasterShield® WP 754

Pre-Applied FPO Waterproofing Membrane for Below Ground Concrete Structures

Technical Properties	
Structure of the Material	FPO (Flexible Polyolefine)
Material Composition	Membrane: Flexible Polyole-fine Coverage: modified Polypro-pylene needle-punch non wo-ven Self-adhesive strip: Butyl rubber, highly elastic, resistant to ageing and release liner
Color	Grey/Black
Total Width	1000 mm
Non-woven Width	900 mm
Butyl Width	100 mm
Length Per Roll	20 m
Total Thickness	1,5 mm (±0,2 mm)
Thickness (Waterproofing membrane) (DIN EN 1849-2)	0,8 mm (±0,09 mm)
Total Weight (without butyl)	900 gr/m <sup>2</sup> (±75 gr/m <sup>2</sup> )
Resistance to Temperature	-30°C / +60°C
Tear Resistance - Longitudinal (DIN EN 12311-2 Metod A)	400 N / 50 mm
Tear Resistance - Lateral (DIN EN 12311-2 Metod A)	340 N / 50 mm
Elongation at Break - Longitudinal (DIN EN 12311-2 Metod A)	%90
Elongation at Break - Lateral (DIN EN 12311-2 Metod 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 Metod B)	60 m
Water Tightness	DIN EN 1928-A-60 kPa/24 std. Watertight DIN EN 1928-A-400 kPa/72 std. Watertight
Resistance to Impact (DIN EN 12691)	A-Alu Panel ≤ 150 mm B-EPS Panel ≤ 1000 mm
Shear Resistance of The Joint Seams (DIN EN 12317-2)	≥ 150 N/50 mm
Resistance to Static Loads (DIN EN 12730)	Metod A-EPS Panel ≤ 20kg Metod B-Substrate concrete ≤ 20kg
Deformation Under Load DIN EN 14909-Annex B (static load 300t/m <sup>2</sup> )	No damage of sealing function (FPO carrier film)
Hydrostatic Pressure (ASTM D 5385-93:2014)	Pass (100 psi)
Puncture Resistance (ASTM D 4068-15 Ek A3)	Pass
UV Resistance (Outside storing – direct sunlight )	Maks. 4 hafta
Application Temperature	+5°C / + 35°C
Reaction to Fire (DIN ISO 11925-2 ve EN 13501)	Class E
Quality Management (DIN EN ISO 9001:2015)	Approved

Part of

**MASTER®**  
**BUILDERS**  
SOLUTIONS

Group

