

Technical sheet

MERPROOF DUAL 1,2 - concrete slab up to 500 mm and vertical with one sided formwork

Property	Value	Test method
Thickness (mm)	1.20 ± 0.1	EN 1849-2
Reaction to fire (class)	E	EN 13501-1
Water tightness (at 60 kPa)	pass	EN 1928
Resistance to tearing (Nail Shank)	≥ 400 N	EN 12310-1
Resistance to impact (mm)	≥ 250 mm	EN 12310-1
Joint strength	≥ 500 N/50mm	EN 12317-2
Tensile strength (long)	≥ 500 N/ 50mm	EN 12311 - 1
Tensile strength (trans)	≥ 500 N/ 50mm	EN 12311 - 1
Elongation at break long. / trans.	550/400%	EN 12311-2 Metod A
Resistance to static loading	≥ 20 kg	EN 12730 Metod B
Durability of water tightness ageing / degradation	pass (60kPa)	EN 1296 / EN 1928 B
Durability of water tightness against chemicals	pass (60kPa)	EN 1847 /EN 1928 B

MERPROOF DUAL 1,5 - concrete slab over 500 mm

Property	Value	Test method
Thickness (mm)	1.50 ± 0.1	EN 1849-2
Reaction to fire (class)	E	EN 13501-1
Water tightness (at 60 kPa)	pass	EN 1928
Resistance to tearing (Nail Shank)	≥ 500 N	EN 12310-1
Resistance to impact (mm)	≥ 400 mm	EN 12310-1
Joint strength	≥ 500 N/50mm	EN 12317-2
Tensile strength (long)	≥ 650 N/ 50mm	EN 12311 - 1
Tensile strength (trans)	≥ 600 N/ 50mm	EN 12311 - 1
Elongation at break long. / trans.	550/400%	EN 12311-2 Metod A
Resistance to static loading	≥ 20 kg	EN 12730 Metod B
Durability of water tightness ageing / degradation	pass (60kPa)	EN 1296 / EN 1928 B
Durability of water tightness against chemicals	pass (60kPa)	EN 1847 /EN 1928 B

MERPROOF

Preventing Water Migration



MP Mer-Plast

Jakšičeva ulica 2, 1000 Ljubljana

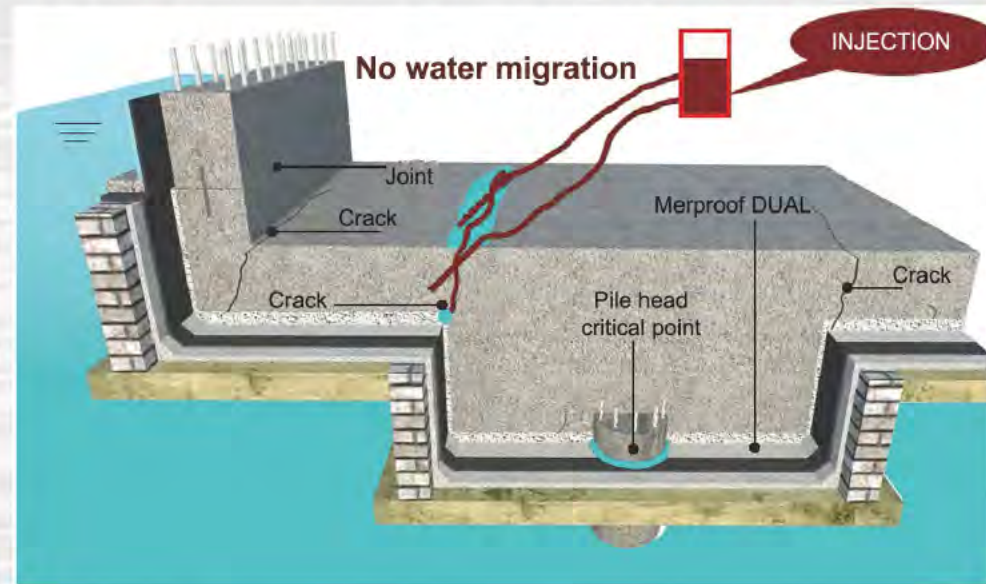
e-mail: info@merplast.si



Mer-Plast

GENERAL DESCRIPTION

Merproof DUAL is a unique, special laminated, highly flexible tanking sheet/ membrane. The membrane is cold applied and preapplied, as it is installed without heat or open-flames. It consists of an adhesive pressure sensitive adhesive and trafficable weather resistant granular coating on a plastic sheet and has on both sides self-adhesive strip for overlapping to ensure a perfect bonding between the membranes. The application must be done before the reinforcement steel is fixed and the concrete is poured.



APPLICATION RANGE

Merproof DUAL can be applied either horizontally to smooth concrete substrate or vertically to permanent formwork. Concrete is then cast directly against the adhesive side of the membrane. Merproof DUAL membrane is used for the waterproofing of exterior basement walls, foundations, floor plates, etc. The product is suitable for vertical and horizontal areas, especially usable against pressurized water.

- Waterproofing to basements of industrial and civil engineering.
- Pre-applied waterproofing system for walls, tunnels and subways



BENEFITS

- Highly flexible
- Granular coating
- Pressure sensitive adhesive
- Continuous thickness
- Simple installation
- Watertight
- Highly chemical resistant
- Perfect bonding to concrete
- Weather resistant
- Methane barrier
- UV-resistant for >60 days
- Trafficable
- Crack-bridging
- Not harmful for groundwater

INSTALLATION GUIDANCE

Application - Preparation of the surface

The surface must be sound, even, stable and clean. The substrate to be coated should not have protrusions, gaps, joints or voids greater than 10 mm. To prevent movements of penetrations such as pipe penetrations for water and electricity during concrete and membrane installation, they have to be fixed and stabilized. Damaged concrete should be renovated with mortar first. Sharp edges have to be removed first.

Material - horizontal application

Merproof DUAL membrane must be placed with the granular adhesive coating layer upwards and the white layer facing the substrate. The overlapping between the membranes is 75 mm. Before removing the silicone foil (of the overlapping area) ensure that the membranes overlapping edge is positioned correctly. Ensure the back side of each subsequent roll is clean prior to overlapping. Then start removing of plastic film to bond the membranes together. Use a heavy roller to ensure a complete perfect bonding between the membranes. Then go ahead with removing of plastic film and press membranes together.

Material - vertical application

Merproof DUAL membrane must be fixed mechanically to the substrate by using fixing tools. These fixings must have a low profile head so that the membrane won't be damaged from the fixings. The overlapping between the membranes is 75 mm. Before removing the plastic film (on the overlapping area) ensure that the membranes overlapping edge is positioned correctly. Ensure the back side of each subsequent roll is clean prior to overlapping. Then start removing of plastic film to bond the membranes together. Use a heavy roller to ensure a complete perfect bonding between the membranes. Then go ahead with removing of plastic film and press membranes together.

Repairs before concrete placement

In case of damaging the Merproof DUAL membrane during installation of formwork and reinforcement steel placement it is necessary to repair prior pouring of concrete.

Pouring of concrete

Ensure that all overlapping areas are sealed and the foil is removed in that area. Do not damage the membrane during pouring of concrete.

Form work removal

It is very important not to remove formwork until the concrete has sufficient compressive strength to develop the required adhesion with Merproof DUAL membrane. Too early removal of all formworks can lead to a displacement of Merproof DUAL membrane and or concrete damage. A minimum concrete compressive strength of 10 N/mm² is recommended prior removing formwork.

Disclaimer

The information complies with the current state of development. There is no claim for completeness. A professional and therefore successful processing of the products is not within our responsibility. We accept a warranty only for the quality of the products, but not for processing. It is the responsibility of the user to evaluate the suitability of our products for its purpose. Preliminary tests are recommended.

