



PMO 450 SYSTEM

Installation Guide



PMO 450 SYSTEM

SAFE, FAST & SUSTAINABLE WATERPROOFING

Peel & stick, bio-based waterproofing membrane

PMO 450 M is a transparent, self-adhesive, bio-PE film with a laminated polypropylene fleece on the front and an adhesive surface on the back.

Through its innovative product design it makes waterproofing as easy as applying wallpaper. Its rapid installation and reduced waiting time are ideal to increase production efficiency.

The PMO 450 M is a bio-based and thus sustainable membrane made from 95% renewable raw materials.

The product is engineered for modular construction and perfect for application on common building boards (e.g. plaster, gypsum, cement, OSB, CLT).

PMO 450 M is the core of the system. However, this document will provide more information on the system components of the PMO 450 system as well as a detailed description of the application steps and detailing.



PMO 450 SYSTEM COMPONENTS

PMO 450 CORE COMPONENTS

PRODUCT	ARTICLE CODE	DIMENSION	PACKAGING
 PMO 450 M Self-adhesive waterproofing membrane	45857 (ARDEX) 095110379 (wedi)	Roll of: 30 m x 0.99 m	1 roll per box
 wedi TOOLS Sealing Tape	095110311	Roll of: 10 m x 120 mm	1 roll per box
 wedi TOOLS Sealing Inner Corner	095130001	105 × 105 × 60 mm	1 pc. per box
 wedi TOOLS Sealing Outer Corner	095135001	105 × 105 × 60 mm	1 pc. per box

WATERPROOFING ACCESSORIES

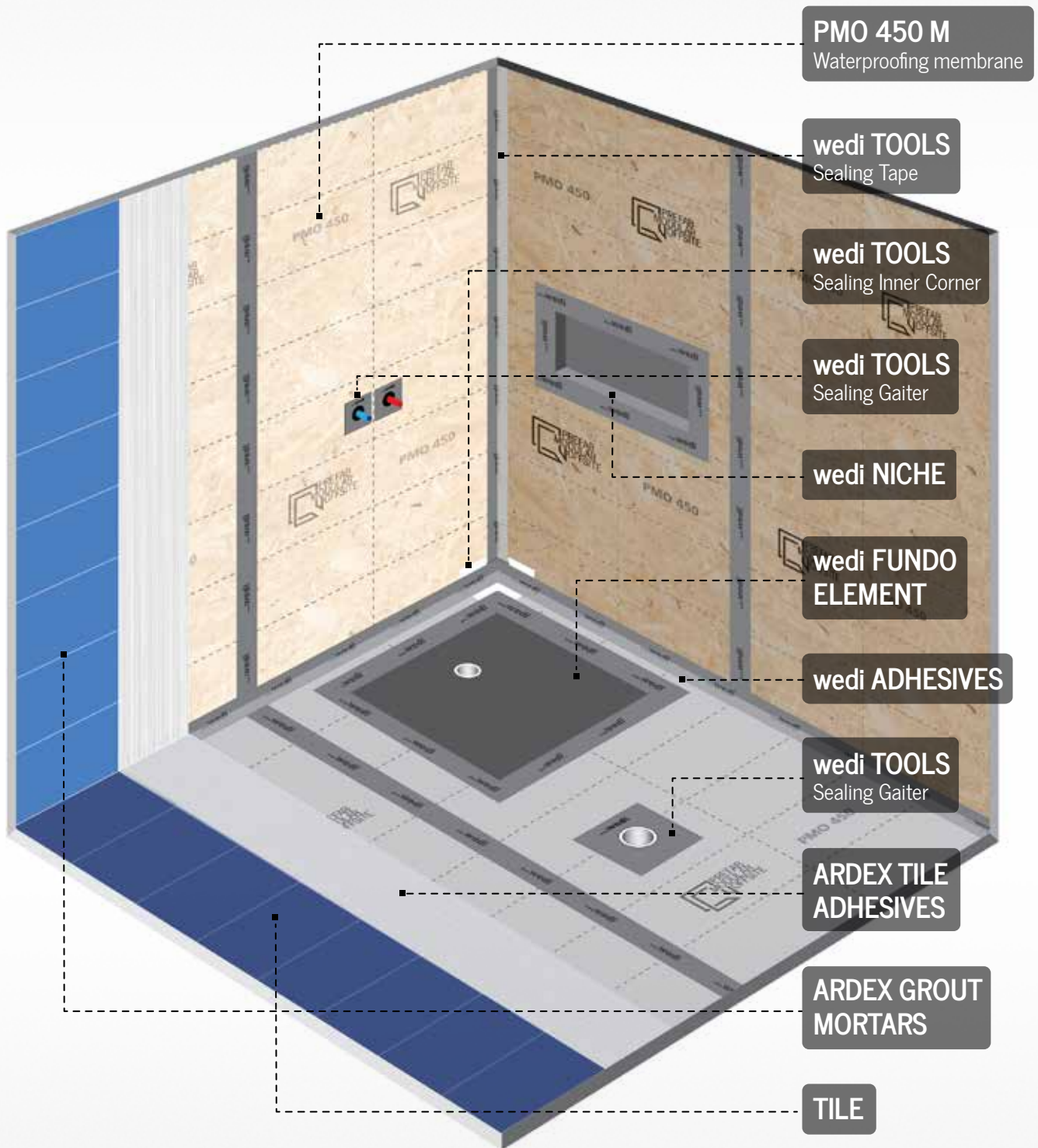
PRODUCT	ARTICLE CODE	DIMENSION	PACKAGING
 wedi TOOLS Sealing Gaiter	095110376 095110377	120 × 120 mm 130 × 130 mm	1 pc. per blister bag 2 pcs. per blister bag
 wedi TOOLS Sealing Gaiter	095110372	370 mm x 370 mm	5 pcs. per box

PMO 450 SYSTEM COMPONENTS

ADHESIVES

PRODUCT	ARTICLE CODE	PACKAGING
 ARDEX AF 180 MS Adhesive for accessories	32144	12 kg bucket
 ARDEX CA 20 P PLUS Adhesive for accessories on critical substrates	44439	310 ml cartridge 600 ml tubular bag
 ARDEX MULTIPRIME Primer for dusty substrate	10155	20 ltr

PMO 450 SYSTEM OVERVIEW



PMO 450 SYSTEM STEP BY STEP MANUAL



1

Take PMO 450 M out of the box – use the box as a dispenser.



2

Cut to desired length – use the dotted lines on the membrane as navigation to cut straight.



3

The substrate must be dry, dust-free, and free of separating agents, as well as sufficiently loadbearing and dimensionally stable to accommodate tiles and slab coverings. The smoothness must be such that a void-free installation of the PMO 450 M is possible.



4

In case there is dust on the substrate: continue with step 5. In case there is no dust on the substrate: continue with step 6.



5

Apply a primer (e.g. ARDEX Multiprime) with a roller. See technical data sheet of the primer for further application information.



6

Draw a vertical installation mark with a suitable marking pen at 50 cm from the next corner or the end of the area to be waterproofed. Then draw every next vertical installation mark with 100 cm from the previous mark.



7

Remove the middle cover strip on the back of PMO 450 M.



8

When bonding PMO 450 M, ensure that the centre mark of PMO 450 M is aligned with the installation mark made previously.



9

Keep removing the mid-release and adhere the centre of PMO 450 M to the substrate.



10

After the marking lines have been accurately aligned, the last two cover strips of the waterproofing membrane can be taken off one at a time. Try to do so in a 45 degree angle like illustrated in the picture. Complete the first side according to step 11 before proceeding to the second side.



11

The waterproofing membrane must be firmly pressed across the whole surface with a fine brush, rubber roller, or foil squeegee. Begin pressing from the center and work outward to prevent any cavities or air bubbles from forming beneath the membrane.



12

Continue with the next lane of PMO 450 M (repeat steps 6 – 11). **ALWAYS** Make sure that PMO 450 M is never overlapping with another PMO 450 M.



13

IMPORTANT In case PMO 450 M overlaps accidentally, cut out the second layer of the membrane in this area and rework the membrane using the system sealing tapes mentioned in step 17.



14

Once the required surface is covered by PMO 450 M, get wedi sealing tape, wedi inside & outside corner & the required adhesives and tools for application (e.g. A2 notch trowel V-shaped, 4 mm notched trowel or medium or short-bristle roller).



15

Apply the adhesive in the marked sections (indicated by dotted line). In the joint area, the sealing tape, as well as the inner and outer corners and seal collars, must overlap by at least 5 cm.



16

The wedi inside & outside corners are embedded in the still fresh adhesive and smoothed with a smoothing trowel in a way that there are no voids under the sealing tape.

IMPORTANT Always start with embedding the wedi corners!



17

The wedi sealing tape is embedded in the still fresh adhesive and smoothed with a smoothing trowel in a way that there are no voids under the sealing tape.



18

IMPORTANT Make sure that all joints are covered. Indoor and outdoor corners must be covered with the system sealing corners described above in the same way as the sealing tapes.



19

The link between our waterproof wedi parts, including the wedi Fundo floor element and PMO 450 M can be finished using identical materials. Make sure to place the wedi sealing tape centered over the substrate transition.



20

The link between our waterproof wedi parts, including pre-shaped wall niches and PMO 450 M can be finished using identical materials. Make sure to place the wedi sealing tape centered over the substrate transition.



21

When there are wall penetrations, such as pipe openings, cut the PMO 450 M membrane around the pipe, leaving a few mm of clearance. Then, apply sealing adhesive over the membrane surrounding the pipe.



22

Position the wedi sealing gaiter over the pipe and set it into the freshly applied adhesive mortar, then smooth it out with a trowel in the same manner used for the sealing tapes.



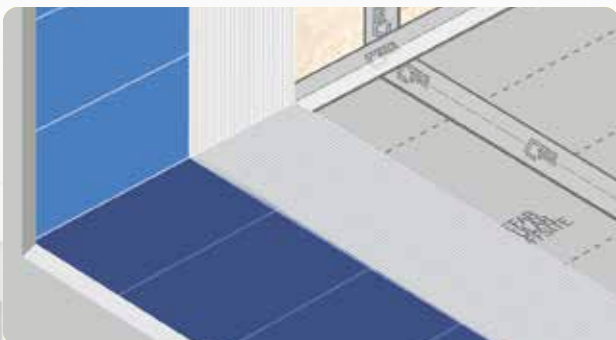
23

For standard point drainages, apply PMO 450 M, ensuring a small gap of a few mm around the drain. Use the wedi sealing gaiter to cut a round hole matching the drain's centre dimensions. Attach the drain and PMO 450 M with this piece of the wedi sealing gaiter floor, then seal it on top with a critical substrate adhesive (page 4). Ensure to cover at least 50 mm of the drain and 50 mm of PMO 450 M with adhesive.



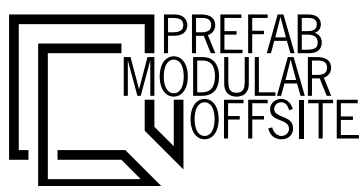
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For linear drainage, apply PMO 450 M leaving a few mm of clearance around the drain. Connect the drain and PMO 450 M using the wedi sealing tape with a sealing adhesive for critical substrates such as CA 20 P Plus on top.



25

Tiles and slabs can be laid immediately after the sealing adhesives have dried thoroughly in the joints and corners. The drying time of the sealing adhesives used can be found in the respective data sheets.



For mock-up trials, technical data sheets, application videos or
further information on the system, please contact:
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