

# Fusion

## Waterproof Wallcovering

### 1. Description

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**Fusion is the prefinished waterproof wallcovering that does not require any waterproofing application by the installer.**

### 2. Uses

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**Fusion is the ideal solution for covering vertical internal surfaces in residential and commercial environments subject to frequent stress (kitchens, gyms, wellness areas, accommodation) or with occasional direct exposure to water (bathrooms/showers, spas).**

### 3. Preparation of the substrate

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**Fusion™ must be applied to smooth, even and white surfaces. Apply an acrylic aqueous dispersion primer as per the manufacturer's instructions. Wait for the indicated drying time to elapse before installing Fusion™.**

*If working on a ceramic surface, it must be sanded using fine grained paper, and a second time using extra-fine grained paper. Apply the first coat of white, fine-textured skimming mortar (MAPEI PLANITOP 200 in white, for example) and let it dry. Apply a second coat of white, extra fine-textured skimming mortar (white MAPEI PLANITOP 560, for example), and let it dry. Apply an acrylic primer and then begin the Fusion™ installation.*

*If working with existing plaster or slightly uneven surfaces, they must be sanded using fine-grained sand paper. Apply a coat of white, extra fine-textured skimming mortar (white MAPEI PLANITOP 560, for example), and let it dry. Apply an acrylic primer and then begin the Fusion™ installation.*

### 4. Hanging instructions

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*Installing Fusion™ in dry areas:*

- 1) The sheets are numbered consecutively. Start to apply the first sheet, taking care to check that it is perfectly perpendicular to the floor using a laser level or plumb line.**
- 2) The Adhesive Proglue is ready to use. Apply the glue using a wool, shorthaired roller, covering the wall area required by the first sheet and extending 10 cm outward (towards the second).**
- 3) When positioning the first sheet, leave a border on the top to compensate for any uneven wall areas.**
- 4) Using a silicone roller, press the sheet's edges onto the wall, ensuring that the seams between sheets adhere well. Remove any excess adhesive from Fusion™ immediately using a damp sponge (rinse the sponge frequently with lukewarm water).**
- 5) Position the remaining sheets, ensuring that the design is perfectly lined up between each. Use a professional cutter to remove any excess covering.**
- 6) Ready for immediate use in dry areas.**

Installing Fusion™ in damp or temporarily wet areas:

- 1) The sheets are numbered consecutively. Start to apply the first sheet, taking care to check that it is perfectly perpendicular to the floor using a laser level or plumb line.
- 2) The Fusion™ Adhesive Aqua is ready to use. Apply the glue using a 1 mm toothed spatula, covering the wall area required by the first sheet and extending 10 cm outward (toward the second).
- 3) When positioning the first sheet, leave a border on the top to compensate for any uneven wall areas.
- 4) Using a silicone roller, press the sheet's edges onto the wall, ensuring that the area around the seams, and the seams between two sheets, adhere well. Remove any excess adhesive from Fusion™ immediately using a damp sponge and/or bleach or ammonium-based soap.
- 5) Position the remaining sheets, ensuring that the pattern is perfectly lined up between each. Use a professional cutter to remove any excess material.
- 6) As soon as all the sheets are in place, you must seal the bottom border. Place masking tape along the wall, 2 mm from the floor or shower base, and along the floor, 2 mm from the wall. Apply a strip of Fusion™ Sealant to the uncovered space, making sure it adheres well, and immediately remove the tape. Follow the same procedure to seal areas where the Fusion™ must be cut, i.e. for mixers, taps, shower heads, etc.

## 5. Technical characteristics

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### **DIMENSIONS:**

Thickness	0,4 mm   0.01 in
Roll width	95 cm   37.4 in
Roll length	custom

Liquid water permeability coefficient* (UNI EN 1062-3)	w 0,01 Kg/(m <sup>2</sup> x h0,5) – waterproof
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Reaction to fire* (UNI EN 13501-1:2009)	Classification: C – s1, d0
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### **Resistance to stains (ISO 10545-14):**

-Chrome green in light oil	Class 5
-Olive oil (def. Olive Oil Agreement – 1979)	Class 5
-Iodine (13 g/l alcohol solution)	Class 1

### **Chemical resistance (ISO 10545-13):**

-Household chemicals: ammonium chloride 100 g/l	A(V)
-Additives for swimming pools: sodium hypochlorite 20 mg/l	A(V)
-Universal scale remover	A(V)
-Citric acid 100 g/l	LA(V)
-Hydrochloric acid 3% V/V	LB(V)
-Potassium hydroxide 30 g/l	LB(V)
-Hydrochloric acid 18% V/V	HB(V)
-Lactic acid 5% V/V	HB(V)
-Potassium hydroxide 100 g/l	HB(V)

Coefficient of linear thermal expansion* (UNI 6061)	0,0000034
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Bonding to the support by pull-off (UNI EN 1542) (plasterboard panel, thickness 15 mm)*	No surface alteration
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Bonding to the support after 10 thunder-shower cycles (UNI EN 13687-2)	0,19 Mpa
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Surface hardness expressed with the Mohs scale (UNI EN 101)	MOHS 8
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Deep abrasion resistance (UNI EN iso 10545-6)	Removed volume 25 mm <sup>3</sup>
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\*Test carried out on sample with joins.

## 6. Cleaning and maintenance

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**Fusion™ maintains its original appearance over time with minimal care and simple precautions. Hot soapy water, household cleaners or bleach-based products allow most of the dirt or debris to be removed.**

## 7. Precautions

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**Fusion™ is non-porous therefore is resistant to dirt. Some chemicals can, however, stain it, discolour it or damage it. These products include hydrochloric acid, lactic acid and potassium hydroxide. The extent of the damage will depend on the duration of the contact with the chemical. Although Fusion™ can withstand high temperatures, it is advisable to protect it from direct heat.**

## 8. Contents of the package

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For dry environment:

**Fusion™: waterproof wallcovering. Adhesive**

**Pro: specific adhesive.**

For damp environment or in temporary contact with water:

**Fusion™: waterproof wallcovering.**

## 9. Warnings

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**– Ensure that the surfaces to be covered are plumb and square, smooth, planar and of an even, white colour. No leaks, joins, screws or imperfections should be visible.**