XSTONE® SURFACES



FLEXIBLE MINERAL VENEER · WET ROOMS · TECHNICAL GUIDE

# Wet rooms. Installation guide

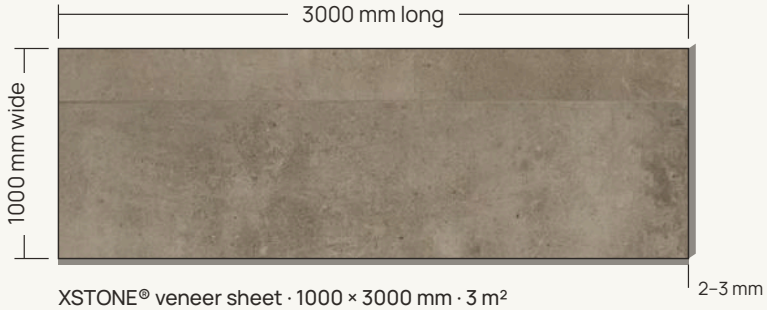
How to prepare, waterproof, bond, grout and seal XSTONE® flexible mineral veneer in showers, bathrooms and other areas exposed to water, using the special adhesives and waterproofing of the Mapei 4 LVT system. Written for installers and site managers, with the 1000 × 3000 mm sheet as the reference format.

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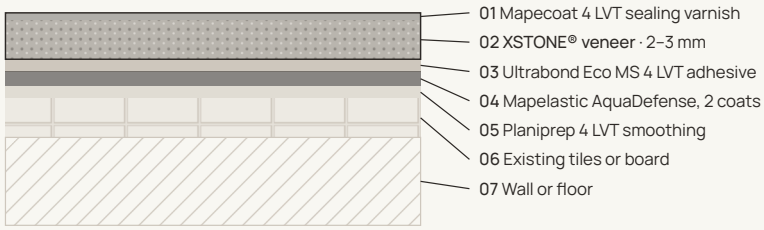
# The veneer at a glance

XSTONE® flexible mineral veneer is a 2–3 mm layer of real mineral material, 90 % recycled marble powder, on a fibreglass backing. It bends around curves, is cut with a knife and, combined with a tested liquid waterproofing system, turns a shower or bathtub surround into a seamless stone surface without demolition.



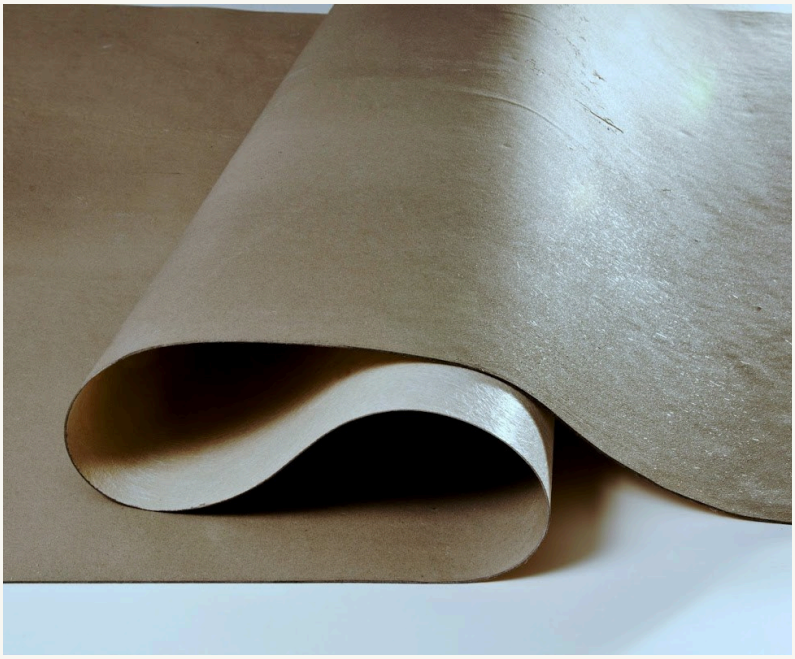

**XSTONE® veneer sheet · 1000 × 3000 mm · 3 m²**
Mineral surface in the chosen finish. Supplied rolled, cut on site with a knife.

## WET-ROOM BUILD-UP, INSTALLED




Not to scale.

## FLEXIBLE, SUPPLIED ROLLED



## AT A GLANCE

| | |
|---|---|
| PRODUCT | XSTONE® · flexible mineral veneer |
| FORMAT | 1000 mm wide × 3000 mm long (3 m²) |
| THICKNESS | 2–3 mm |
| FACE | Mineral surface, 90 % recycled marble powder, matt |
| BACKING | Fibreglass fabric |
| REACTION TO FIRE | A2-s1,d0 (EN 13501-1) |
| EMISSIONS | A+ (indoor air, VOC) |
| RESISTANCE | Water, UV, scratches and stains (with protection options) |
| OPTIONS | Water-repellent protection<br>Hard-traffic protection |
| USE | Showers, bathtub surrounds, bathroom walls, spa areas, wet-room floors |

# One veneer, one waterproofing system

XSTONE® wet rooms are installed with the Mapei 4 LVT system: a tested chain of pre-mixed products that goes directly over sound old tiles, waterproof boards or plasterboard, without dust or demolition. Use the whole chain; the performance claims apply to this build-up only.

| STEP 01 | STEP 02 | STEP 03 | STEP 04 | STEP 05 |
|---|---|---|---|---|
| **Prepare** | **Waterproof** | **Bond** | **Grout** | **Seal** |
| Check, repair and smooth the substrate. | Two coats of liquid membrane, tape in corners. | Adhesive, lay the veneer, press. | Fill joints with XSTONE® Filler Joint. | Two coats of Mapecoat 4 LVT varnish. |

THE PRODUCTS, IN ORDER OF USE

PREPARE



**Planipatch Xtra**

Repair mortar for missing or removed tiles

PREPARE



**Planiprep 4 LVT**

Ready-to-use smoothing compound

WATERPROOF



**Mapelastic AquaDefense**

Liquid waterproofing membrane

WATERPROOF



**Mapeband PE 120**

Sealing tape for corners and joints

BOND



**Ultrabond Eco MS 4 LVT Wall&Floor**

Adhesive for the veneer

GROUT



**XSTONE® Filler Joint**

Joint filler matched to the finish

SEAL



**Mapecoat 4 LVT**

Two-component sealing varnish, non-slip

Shower floors must slope towards the drain. If a concrete floor is flat, the slope is built first with Nivorapid FP mortar, as described in step 01. Follow each Mapei product's technical data sheet for coverage, working time and safety.

## Tools

- ☐ Tape measure, pencil, straight edge, level
- ☐ Sharp utility knife, spare blades, scissors
- ☐ 120-grit abrasive and a vacuum cleaner
- ☐ Long-pile roller and brush (membrane)
- ☐ Flat steel trowel, sponge, fine-notched trowel
- ☐ Pressure roller, masking tape, spatula, short-pile roller, paint mixer
- ☐ Gloves, safety glasses, dust mask

## Suitable substrates

- Existing ceramic tiles, sound and well bonded.
- Waterproof construction boards and tile-backer boards.
- Moisture-resistant plasterboard.
- Cement render and concrete, cured and dry.
- Floors: concrete or screed that slopes to the drain, or a slope built with Nivorapid FP.

**Not suitable.** Loose or hollow tiles, flaking paint, non-waterproof wood-based boards, rising damp. Repair first.

## Site conditions

- Air and substrate 10–30 °C throughout, curing included.
- Acclimatise the veneer flat in the room for 48 hours.
- No water on the surface until 24 hours after the last varnish coat.
- Drains, outlets and pipe penetrations in place before waterproofing; nothing is drilled through the membrane afterwards.
- Follow DTU 53.12 or the local wet-room code.

# Prepare and waterproof

Steps 01 and 02 are where a wet room is won or lost. The veneer only ever sees the smooth, sealed surface created here.

01
STEP

## Prepare the substrate

### On existing tiles

- Tap every tile. Remove cracked or hollow-sounding tiles with their bedding mortar.
- Fill the gaps with Planipatch Xtra, flush with the surrounding tiles.
- Sand the glaze of the remaining tiles so the next layer can grip, then vacuum the dust.
- Spread Planiprep 4 LVT over the whole surface to fill the tile joints and make it smooth and level. Let it dry, about 1 hour.

### On a flat concrete floor: build a slope to the drain

Water must run to the drain. If the floor is flat, build the slope before waterproofing:

- Brush on a bonding coat: Nivorapid FP mixed with Latex Plus (Latex Plus diluted 1:1 with water).
- While the bonding coat is still wet, apply Nivorapid FP mortar (mixed with water) 3–40 mm thick, sloping towards the drain.
- Smooth the surface with a flat trowel, then with a damp sponge. Let it dry 24 hours.
- Use the mixed mortar within 30 minutes.

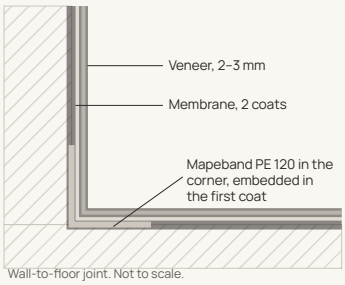
**Flatness.** The veneer is 2–3 mm thick and shows every bump underneath. Before waterproofing, the surface should be flat to within 2 mm under a 2 m straight edge.

02
STEP

## Waterproof

- Apply the first coat of Mapelastic AquaDefense with a long-pile roller, about 700 g/m². While it is wet, embed Mapeband PE 120 in every corner, wall-to-floor joint and around pipe penetrations, using a brush.
- After about 1 hour, apply the second coat with a flat steel trowel, about 300 g/m², to a smooth, closed surface.
- After about 4 hours, sand the whole surface lightly with 120 grit to remove ridges, then vacuum.
- Fit drains and gutters with their flange plate so the liquid membrane laps onto them.
- Leave to cure at least 12 hours before bonding.

CORNER DETAIL




Wall-to-floor joint. Not to scale.



Finished shower in XSTONE® veneer, concrete finish, sealed with varnish. Pipework for the shower head and valve was in place before waterproofing.

# Bond, grout and seal

## 03 STEP — Bond the veneer

- At least 12 hours after the last membrane coat, vacuum the surface.
- Dry-fit each sheet and mark its position. Cut with a sharp knife against a straight edge, face up; cut openings for valves and outlets before bonding.
- Spread Ultrabond Eco MS 4 LVT Wall&Floor over the area for one sheet with the fine-notched trowel.
- Lay the sheet edge to edge against its neighbour, then slide it to the chosen joint width, or leave it butted for a jointless surface. Press the whole face firmly with the roller, from the centre out, until no hollow spots remain.
- Wipe any adhesive off the veneer surface at once. Leave 12 hours before grouting.

**Curves.** Warm the veneer slightly and bend it around rounded corners and niches in one piece; a continuous sheet means one joint less to seal.

## 04 STEP — Grout the joints

- After at least 12 hours, clean any adhesive out of the joints.
- Stick masking tape along both edges of every joint so the filler does not mark the veneer.
- Cut a corner off the XSTONE® Filler Joint pouch and pipe the filler into the joint.
- Scrape off the excess with a spatula held upright.
- Remove the masking tape while the filler is still wet.
- Let the filler dry at least 2 hours before sealing.

## 05 STEP — Seal the surface

- Make sure the surface is clean and dry.
- Mix the two components of Mapecoat 4 LVT with a paint mixer.
- Apply two criss-cross coats with a short-pile roller, about 100 g/m² in total; the varnish gives the surface its water resistance and non-slip grip.
- Wait at least 24 hours before the room is used.

### WAITING TIMES

| | |
|---|---|
| PLANIPREP 4 LVT | about 1 h |
| NIVORAPID FP | 24 h |
| MEMBRANE, 1ST TO 2ND COAT | about 1 h |
| MEMBRANE TO SANDING | about 4 h |
| MEMBRANE TO BONDING | 12 h minimum |
| BONDING TO GROUTING | 12 h minimum |
| GROUT TO VARNISH | 2 h minimum |
| VARNISH TO USE | 24 h minimum |

At 20 °C and 50 % relative humidity. Longer in cold or humid rooms.



A single horizontal joint on a bathroom wall, grouted with XSTONE® Filler Joint in the colour of the finish.



Whole bathroom in one finish: walls bonded over the old tiles, no demolition.

# Where it goes, how it lasts

**Wall design**
Feature walls, full-height cladding

**Fit-outs**
Hotels, offices, restaurants, shops, events

**Furniture**
Vanity units, fronts, counters

**Doors and cupboards**
Door leaves, wall cupboards

**Cladding**
Showers, bathtub surrounds, niches

**Bathrooms**
Private and hotel bathrooms, spa, wellness

## Care and maintenance

Once varnished, the surface is closed and water-resistant. Treat it like a fine stone wall.

| | |
|---|---|
| Routine | Rinse with water and wipe with a soft cloth or squeegee after use, as with any shower wall. |
| Cleaning | Warm water with a pH-neutral cleaner and a soft sponge. Rinse and dry. |
| Avoid | Abrasive pads and powders, bleach, acidic descalers, solvents, steam and pressure washers. |
| Limescale | Wipe dry after use in hard-water areas. Remove deposits with a diluted neutral cleaner. |
| Varnish | In heavily used showers, refresh Mapecoat 4 LVT every few years on the clean, dry surface. |
| Damage | Deep scratches are filled with XSTONE® Filler Joint and re-varnished locally. Keep an offcut from the batch. |

## Watch the installation

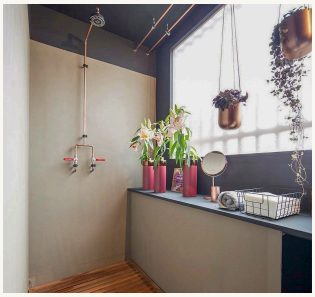
Two short films show the system on a real site: a hotel bathroom finished in XSTONE® veneer, and the Mapei 4 LVT sequence step by step.

SCAN
Hotel bathroom project

SCAN
Mapei 4 LVT installation

FLOORS

On a wet-room floor the varnish is the wearing layer and gives the non-slip grip. Build the slope to the drain before waterproofing, run the membrane onto the drain flange, and apply both varnish coats; check slip resistance against the local requirement for the room.



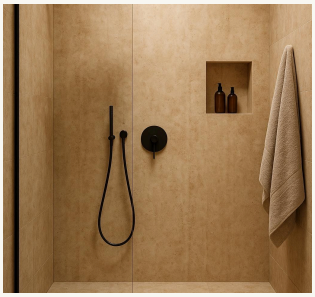
Walk-in shower, veneer on three walls, exposed copper pipework.



Glazed shower, concrete finish floor to ceiling.



Bathroom with freestanding tub, concrete finish, continuous wall.



Shower in travertine finish with a built-in niche.

# Certifications and responsibility

XSTONE® manufactures its mineral coatings from 90 % recycled marble powder, reusing quarry waste in a low-energy, low-water process. The veneer is rolled and light to transport, which lowers $CO_2$ emissions by up to 95 % compared with natural stone, and it can be recycled at the end of its life.

| | |
|---|---|
| Reaction to fire | A2-s1,d0 for the XSTONE® mineral veneer (EN 13501-1). |
| Indoor air | A+ VOC emission class; emissions below 1 g/l. |
| Water resistance | Achieved by the complete build-up: Mapelastic AquaDefense membrane under the veneer, Mapecoat 4 LVT varnish on top. |
| Marking | Products certified to European standards (CE). |

**CE.** Certified to European standards.

**A+.** Indoor air emissions, the best class.

**BREEAM.** Contributes to Materials and Resources, Indoor Environmental Quality and Innovation in Design.

**LEED.** Contributes to MRc1 Construction Waste, MRc2 Building Life-Cycle Impact, MRc4 Material Ingredients and MRc5 Responsible Sourcing.

Credit contributions depend on the project and the assessment version. Ask XSTONE® for the supporting documents.

TECHNICAL ASSISTANCE

## Talk to our team

Questions on substrates, floor slopes, drains, the Mapei 4 LVT products or the right finish for a wet room are answered before you order and while you install. Send drawings and photos; we reply with a recommendation.

Request samples →

Discuss your project →

xstone.group · info@xstone.group



Shower and vanity in one concrete finish, veneer over the existing wall. XSTONE® project.

This guide gives general instructions for XSTONE® flexible mineral veneer in wet rooms with the Mapei 4 LVT system. Site conditions and substrates vary; where they differ from the cases described, ask XSTONE® before installing. Follow the technical data sheet of every Mapei product. Edition 11 / 2026; it replaces all previous editions.

STONE CHARACTER. FREEDOM OF FORM.