



STRATA_MAT™ WP

DS-263-0924

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

STRATA_MAT™ WP

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Antifracture decoupling waterproofing membrane of HDPE+PP to protect floors from movements of the substrate in commercial and residential settings, indoors and outdoors.

Allows faster installation and waterproofing of the floor, protecting it from fracturing due to movements of the substrate also on damp backings.

Uses

- For indoor and outdoor use, on terraces, balconies and flat roofs
- It is used as a decoupling membrane under installations of tiles and natural stone to prevent the movements of the substrate getting transmitted to the coating
- Waterproofing if used with WPM Tape glued with cement-based waterproofing products or with reactive adhesives of the LATICRETE line.

- Allows the residual moisture of the substrates to escape, suitable for damp backings
- Ideal with heating floors
- Fit for vehicle traffic in non-industrial environments
- Ideal for use on plywood and chipboard
- It is applied to the substrate with a normal adhesive for tiles modified with a polymer (C2) or reactive adhesive (R2)

Advantages

- 2-in-1 product: antifracture decoupling and waterproofing if used with WPM Tape
- Absorbs movements in the substrate and prevents cracks from breaking or detaching the tile
- Permits vapour to vent its tension without tensioning the floor
- Reduces foot noise
- Distributes point loads
- Lightweight, easy to carry and fast to install, no special tools needed
- The neutral colour of the membrane permits checking that the bottom fabric is wetted
- Thin, just 3.5 mm in thickness

Permitted backings

- Concrete
- Screed and cement-based mortar
- Gypsum screeds and mortars
- OSB panels, wood panels for outdoor use
- Ceramic tiles and natural stones floors

Packages

Rolls of 30 m²: 1.15 m x 26.25 m

Shelf life

The excellent quality of this product is guaranteed for five (5) years provided it is stored indoors, away from sources of heat and UV rays and raised off the ground at temperatures >5°C and >35°C.

Limitations

- Use only when floor-mounted on the prescribed substrates.
- DO NOT use straddling structural joints.
- DO NOT leave exposed but always coat with the prescribed finishings.
- Minimum tile thickness >7.5 mm.
- DO NOT leave exposed for any longer than a week. In any case, it must be protected from direct abrasion and direct sunlight until the envisaged coating is installed.
- DO NOT apply the membrane or the envisaged coating with solvent-based adhesives.

Notes: The surfaces must be structurally solid, stable and sufficiently rigid to support ceramic/stone tiles and similar finishings

Warnings

- At low temperatures, protect the installation until the adhesive layers have fully set.
- With moisture sensitive materials (e.g., green marbles) use LATAPOXY®300 Adhesive or Latalastik for gluing.

4. TECHNICAL DATA



Standard

- ASTM C627
- ANSI A118.2

Physical properties

Colour:	Translucent White / Neutral
Chemical nature:	Waterproof membrane: HDPE Breathable non-woven fabric: PP
Width:	1.15 m ± 0.02 m
Length:	26.25 m ± 0.30 m
Thickness:	3.5 mm ± 0.5 mm
Weight:	575 g/m ² ± 10%
Initial adhesion:	≥ 0.6 N/mm ² (EN 12004-2 8.3) *
Adhesion after immersion in water:	≥ 0.5 N/mm ² (EN 12004-2 8.3) *
Adhesion after thermal ageing:	≥ 0.5 N/mm ² (EN 12004-2 8.3) *
Adhesion after freeze-thaw cycles:	≥ 0.5 N/mm ² (EN 12004-2 8.3) *
Point Load:	Test passed (ANSI A118.12 5.2)
Robinson Test:	Very heavy loads (ASTM C627)
Working temperature:	from -30°C to +90°C

*using 335 MAXI S

Chemical resistance

Substance:	Resistance after 7 days at 23°C
Hydrochloric Acid 3%	Resistant
Sulphuric Acid 35%	Resistant
Citric Acid 100 g/l	Resistant
Lactic Acid 5%	Resistant
Potassium Hydroxide 3% / 20%	Resistant / Not resistant
Potassium Hydroxide 0.3 g/l	Resistant
Salt water (20 g/l salt)	Resistant

These technical data were measured in standard laboratory conditions and may be subject to change without notice. The actual performance of the product depends on the applicative conditions of the site, the method of installation used and the type of coating.

5.APPLICATION

Preparing the backings

The backing must be smooth, flat, clean and compact; STRATA_MAT WP must be glued therefore the backing must be prepared by following the instructions on the technical data sheet of the adhesive to be used.

In outdoor applications it will be necessary to respect gradients of 1.5% toward suitable drain systems. The temperature of the backing must be between 5°C and 35°C.

Installation as antifracture decoupling

Cut the membrane to size with a cutter or scissors, considering a max joint of 5 mm between one sheet and another and between the sheet and the surrounding constructional elements (walls, columns, pillars, drains, channels, ...) Use a LATICRETE class C2 or R2 adhesive and apply it on the backing with a suitable notched trowel (generally size 4 or 6 mm). Spread the adhesive only in the area to be covered with the membrane observing the open time of the adhesive. Spread the membrane by unrolling the roll onto fresh adhesive with the PP fabric part facing downwards (in contact with the adhesive).

Press down with a specific pressure roller or finishing trowel to ensure contact between the bottom fabric of the membrane and the fresh adhesive; continue over the entire surface of the membrane so as to eliminate the air and glue 100% of the bottom fabric (the neutral colour of the membrane permits checking that the bottom fabric is wetted). Check, also directly and by raising part of the membrane, that the bottom fabric is completely covered with adhesive. Pay special attention and take care when pressing so as not to compromise the integrity of the membrane (using metal trowels with sharp edges is not recommended). Glue sheets by subsequently placing them side by side at a maximum distance of approximately 5 mm.

Avoid excessive amounts of adhesive under the membrane and avoid working when there is the most direct sunlight in the summertime. The use of a specific pressure roller is strongly recommended for an optimal result of this phase.

Installation as antifracture decoupling waterproofing

After having carried out the steps described above, seal the contacts between the sheets and the construction elements with WPM TAPE. For corners or pipes, use HYDRO BAN® PREFORMED CORNERS & COLLARS. Glue the components of the waterproofing (tapes, corners, flanges) with a cement-based waterproofing product of the LATICRETE line or with waterproof reactive adhesives such as LATAPOXY 300 ADHESIVE or LATALASTIK.

When gluing tapes, take special care over filling the depressions in the surface of the HDPE membrane and glue the tapes along their full length, pressing with a trowel to make both the air and excess product come out from the sides. Do not cover tapes with product so as not to jeopardise the flatness of the floor.

To prevent subsequent work from jeopardising the gluing of the WPM TAPE it is advised to use AQUA BARRIER RAPID. Do not use liquid waterproofing products.

A flooding test can be performed once the waterproofing product or the adhesive has perfectly set.

Installing tiles or marbles

The surface of the membrane must be perfectly dry and clean. Check for the presence of any moisture, condensation and dust in the surface depressions and perform electro-mechanical suction if necessary. For floor installation, choose the adhesive according to the type and size of the material to be applied. LATICRETE recommends using a C2 or R2 modified adhesive in compliance with EN 12004 or higher (e.g.: 335 MAXI S or 254 PLATINUM or LATALASTIK).

Apply the adhesive with a suitable notched trowel in accordance with the provisions of the regulations for installation (e.g. UNI 11493.1). Apply an initial layer of adhesive with the smooth part of the trowel to completely fill the surface depressions of the membrane. Then apply a second layer of adhesive with the notched part. Install and press the tiles onto the fresh adhesive, frequently checking that the back of the tiles gets wetted.

Depending on the adhesive used, assess the time for grouting the joints, which must be done after the adhesive has completely set.

Making movement joints

Using an antifracture decoupling membrane enables making flexible expansion joints for a whole tile without respecting the pattern of the joints in the substrate. Make a suitable network of flexible expansion joints in accordance with the provisions of the regulations for installation (e.g. UNI 11493.1).

6. AVAILABILITY AND COSTS

Availability

LATICRETE® products are available worldwide. To know the name of your nearest dealer, contact LATICRETE EUROPE S.r.l.

+39 059 557680

info@laticreteurope.com

For information about the distributor online

www.laticrete.eu.

Costs

Contact your nearest LATICRETE EUROPE S.r.l. product dealer to obtain full information about the costs.

7. WARRANTY

The vendor guarantees that the product will not deteriorate under normal conditions of use. Warranty is valid for one (1) year. Contact Technical Services for additional information.

DOCUMENTATION:

- DS230.13EU: 1 year of product warranty
- DS 230.10EU: 5-10-15 years of product system warranty

8. MAINTENANCE

LATICRETE® and LATAPOXY® products are high-quality products designed to make long-lasting, maintenance-free installations. However, the duration and performance strictly depend on the type of products used for cleaning.

9. TECHNICAL SERVICES

Technical Support

For information, contact Technical Service:

+39 059557680

technicalservices@laticreteurope.com

Technical and safety related literature

To obtain technical and safety related literature, visit our website: www.laticrete.eu.

Warnings

The information and instructions given in this Technical Data Sheet, although based on knowledge acquired over years of applications, are to be considered merely as a guide. LATICRETE®, not being able to control the product installation conditions and application methods directly, cannot be held liable for anything deriving from their installation. Anyone wishing to use LATICRETE® products must perform appropriate site tests to determine suitability for the intended use.

Our products are covered by warranty within the limits of our general conditions of sale and within the limits of the correspondence of our products with the technical specifications and applicable certifications, as explicitly stated on the product technical data sheets or in the applicable technical documentation expressly supplied by us with the products themselves.

10. DOCUMENTATION

Further information about the product is available on our Website laticrete.eu.