



ARDEX DS 21

Universal decoupling mat

- Reduces tension and bridges cracks
- Universally applicable
- Quick and easy installation
- Suitable for heated screeds



Area of application

Indoor. Floor.

For decoupling tiles, slabs, natural stone coverings, elastic coverings, carpets and parquet floors in residential areas up to 2 KN/m².

The decoupling function reduces tension between the substrate and the covering, bridges cracks and allows safe installation even on critical substrates.

Art

ARDEX DS 21 Universal decoupling mat consists of recycled polyester.

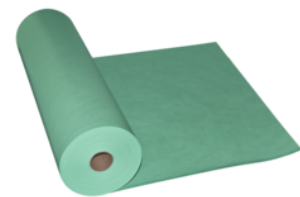
Preparation of the surface

The substrate must meet the requirements of the currently valid ÖNORM standards or guidelines.

In particular, it must be level, permanently dry, solid, load-bearing, free of release agents and cracks, and resistant to tensile and compressive forces, or must be prepared accordingly.

Calcium sulphate self-levelling screeds must be prepared in accordance with the planning and execution guidelines for self-levelling screeds.

The surface must be sufficiently level to allow ARDEX DS 21 Universal decoupling mat to be laid without voids.



To compensate for unevenness in the substrate, the levelling work is carried out with suitable ARDEX levelling compounds in combination with ARDEX primers.

Processing

Bonding floor coverings or parquet flooring

Lay ARDEX DS 21 universal decoupling mat loosely without overlapping, cut to size and then fold back halfway.

Apply adhesive, e.g. ARDEX AF 460 ready-mixed parquet adhesive, ARDEX AF 480 hard-elastic parquet adhesive or ARDEX AF 485 shear-resistant parquet adhesive, with a suitable notched trowel (e.g. TKB B1 or TKB B2) to the substrate. Then lay the strip into the adhesive within the application time and rub down. Ensure that the fleece backing is sufficiently wetted.

Repeat the process with the second half of the strip.

After approx. 20 minutes, roll with a multi-section roller (min. 50 kg).

Allow to dry for 24 hours. Then lay the parquet using an ARDEX SMP or 2K PU adhesive.

ARDEX DS 21 Universal decoupling mat can also be coated with ARDEX levelling compounds, e.g. ARDEX K 22 F Calcium Sulphate Levelling Compound or ARDEX K 39 Reactivable Floor Levelling Compound, in a minimum layer thickness of 3 mm, in order to subsequently lay elastic and textile floor coverings. The levelling compound is applied directly to the clean fleece surface.

Consumption increases by approx. 0.5 kg/m² due to the levelling compound penetrating the fleece surface. Allow the levelling compound to dry thoroughly before laying textile and elastic floor coverings.

Laying tiles and slabs

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The coverings should be at least 10 x 10 cm and no larger than 60 x 60 cm. ARDEX X 78 MICROTEC Flex Adhesive or ARDEX X 77 MICROTEC Flex Adhesive can be used to bond ARDEX DS 21 Universal decoupling mat.

Tiles must be at least 8 mm thick with a minimum breaking strength of 1,500 N and natural stone at least 15 mm thick. ARDEX X 78 MICROTEC Flex adhesive is the preferred choice for laying tiles and natural stone that is not sensitive to moisture. For natural stone that is sensitive to moisture, use ARDEX N 23 W NEW MICROTEC Natural Stone and Tile Adhesive, white, or ARDEX X 32 Flexible Laying Mortar, for example.

The mortar thickness on the bonded ARDEX DS 21 Universal decoupling mat must not exceed 5 mm.

Apply the tile adhesive with a 3 mm notched trowel, on rough substrates with a 4 mm notched trowel, lay the pre-cut strips into the still fresh adhesive bed and press them into the adhesive.

The individual strips should be laid close together without overlapping.

Resumption function

For temporarily laid tiles and natural stone, ARDEX DS 21 can be laid loosely on suitable substrates.

To do this, cut the first strip to size and place it precisely against the edge insulating strip. (If necessary, the strip can be secured against slipping with double-sided adhesive tape.) Then start applying the tile adhesive and laying the tiles.

Only lay tiles so that a strip at least 10–20 cm wide remains free at the end of the long side of the strip. Cut the second strip and slide it under the first strip with the long side so that there is an overlap of approx. 5–10 cm.

Make sure that the top edges of the strip fit snugly against the edge insulating strips. Continue with the remaining strips as described.

Please note

When installing ARDEX DS 21 Universal decoupling mat, any movement and construction joints in the substrate must be covered.

Do not apply at temperatures below +5°C.

All installation materials must be allowed to acclimatise in a heated room in good time in cold weather.

After bonding mosaic and high-sided lamella parquet as well as solid wood floorboards, we recommend using suitable oils or waxes for surface treatment.

If using varnishes, check that they are suitable for bonding parquet to a universal decoupling fleece.

Do not use on damp surfaces, outdoors or in permanently wet areas.

Flank tears are not reasons for complaint, as they do not impair functionality.

In case of doubt, carry out test bonding.

Note

The information in our safety data sheets must be observed. For commercial use only!

Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

Technical data according to ARDEX quality standard

Colour	Light green
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Weight approx.	250 g/m ²
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Web thickness approx.	1.1 mm
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Web width approx.	1 m
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Product details

Suitable for underfloor heating	Yes
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EMICODE	EC 1 PLUS = very low emissions PLUS
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Packaging	50 m ² roll
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Storage	Can be stored in cool, dry rooms for approx. 12 months in the original sealed container.
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