



CI/SfB

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PRODUCT DATA SHEET

ARDEX DS 101

Fast track uncoupling mat for tiling systems

Features

- Protects floor tiling against damage caused by problematic substrates
- Uses 20% less adhesive to install compared to cavity mats
- Allows immediate tiling – fast track installations
- Lightweight, easy to cut and even easier to install
- Only 1mm thick
- Suitable for underfloor heating



Reg No. FM 01207

EMS 565427

OHS 628374

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ARDEX DS 101

Fast track uncoupling mat for tiling systems

DESCRIPTION

ARDEX DS 101 is an uncoupling matting to accommodate lateral movement for tile installations on floors with limited movement when used as a system, with a recommended ARDEX flexible cementitious or flooring adhesive.

USE

Installation of ceramic and porcelain tiles, slabs, natural stone and concrete pavers. Counteracts and therefore minimises tension stresses between the substrate and the floor to be installed.

Prevents reflective cracking caused by shrinkage cracks, board joints and lateral movement. Provides crack bridging and allowing a safe installation onto challenging substrates. Suitable for internal flooring; renovation and new construction, domestic and commercial areas in medium/heavy duty applications. Suitable for bathroom and kitchen areas. Recommended for heated floors and timber floors.

SURFACE PREPARATION

Ensure surfaces to be tiled are flat to SR1 tolerance as recommended in BS 5385: Part 3. Substrates must be clean, dry, sound and free from contamination and stable enough to receive tiling.

The surface must be levelled to SR1 prior to installation. Uneven surfaces must be primed and levelled with ARDEX primers and levelling compounds prior the installation of ARDEX DS 101 using suitable ARDEX Flexible cement-based adhesive.

The ARDEX DS 101 is suitable for bridging static cracks less than 2 mm wide if differences in height can be excluded.

Always ensure the correct adhesives and grouts are selected for the installation.

ARDEX DS 101 can be used in internal wet floor areas when used with ARDEX WPC.

IMPORTANT NOTE: Do not install ARDEX DS 101 or tiles in temperatures below 5°C.

APPLICATION

The substrate must be even and load bearing. Roll out the ARDEX DS 101 from the corner and cut them precisely to the required length and sizes as required for the floor. Trim off any excesses around up-stands using scissors or a utility knife. Apply a thin bed of a suitable ARDEX flexible tile adhesive e.g. ARDEX X 7 R S1, to bond the ARDEX DS 101 which is appropriate for the substrate to be tiled. Use a 4 mm notched trowel.

Roll back and lay the ARDEX DS 101 into the freshly applied ARDEX flexible tile adhesive. The mat must be fully engaged into the adhesive to provide a suitable bond and applied within the open time of the adhesive. If the adhesive has started to skin or set, remove this layer of adhesive and re-apply a fresh layer. Alternatively, adhere the ARDEX DS 101 using ARDEX AF 2365 Uncoupling Matting adhesive, using a B1 or 2mm x 6mm V-shaped notched serrated trowel in accordance with the product data sheet.

To ensure full adhesion is achieved between the ARDEX DS 101 and the ARDEX flexible tile adhesive, smooth out the matting using either the flat edge of a steel trowel or a suitable float.

Eliminate any air pockets.

Where additional rolls / membrane is needed on the floor, ensure the separate mats are butt jointed at the edges but not overlapped. Remove any excess tile adhesive which may have squeezed through the joints.

N.B The matting must always be separated where a change in substrate occurs, or a construction/movement joint is present in the background. Continue the movement joint through to the tiles finish.

NOTE: Following application of the ARDEX DS 101 and the commencement of tiling. Care should be taken to ensure that the membrane does not lift and debond from the tile adhesive layer below.

To apply tiles, mix and apply the adhesive to the mat using a minimum 10mm notched trowel. If using a 20mm notched trowel (large format tiles) ensure the final bed thickness of the tile adhesive does not exceed 6mm over the ARDEX DS 101. If an ARDEX flexible rapid-setting cementitious based adhesive is used the tiles can be applied immediately.

Always take care when applying the layer of adhesive and tiles onto the mat to avoid debonding the mat.

Ensure you follow all required fixing instructions for the adhesive used and all applicable industry standards. ARDEX DS 101 is not designed to stop substantial cracks for joints transmitting through the tile bed, or cracks that result from vertical movement. Any joint or crack that is subject to movement should be either stitched with an appropriate product such as ARDEX P 10 SR, to stabilize the joint before overlaying, or carried through the floor finish as appropriate.

GROUTING

Grouting can proceed once the tile bed has hardened sufficiently so that the tiles will not be dislodged. Follow the guidance given for the ARDEX tile adhesive used. At this time, floor tiles will also be able to receive light foot traffic. Higher temperatures will shorten, and lower temperatures will extend these times.

Tile joints should be grouted with the appropriate ARDEX-FLEX Tile Grout: ARDEX-FLEX FL Rapid Setting Tile Grout for joints 3-15mm wide and ARDEX-FLEX FS Flexible Tile Grout for joints up to 4mm wide. Alternatively, for areas where superior resistance to chemicals, high standards of hygiene or a reduced maintenance regime is required, ARDEX EG 18 PLUS Epoxide Tile Grout can be used.

PRODUCT INFORMATION

Composition: Two layers of non-woven polypropylene with an inner layer of glass filament.

Colour: Grey

Pack sizes: 30m rolls

Sheet Width: 1m

Sheet Thickness: 0.85 mm

Sheet Weight: approx. 270g/ m²

Roll Weight: approx. 8.5kg

Temperature Resistance: -30°C to +90°C

Storage: Can be stored for approx. 12 months in dry rooms away from direct sunlight.

SERVICE CONDITIONS

Walls	✘	Floor	✓
Interior	✓	External	✘
Dry	✓	Wet Areas (1)	✓
Chemical Resistance	✘	Shower Floor (1)	✓
Swimming Pools	✘	Medium/ Heavy Duty	✓
Underfloor Heating Systems	✓	Limited Movement/Vibration	✓

(1) In wet conditions tank out with ARDEX WPC. Refer to the data sheet for guidance.

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GUIDANCE NOTES ON BACKGROUNDS TO BE TILED

Concrete

Allow at least 6 weeks, preferably at least 12 weeks, drying time prior to fixing tiles onto new concrete. Mechanically clean the concrete surface and ensure mould, oil, curing agents, hardeners/ sealers etc. are removed.

Cement/sand screed

Wood float finish. Prevent rapid drying of screed surfaces for 7 days. Allow cured screeds to air dry for at least 3 weeks prior to tiling.

NOTE for Screeds: With ARDEX A 38 Ultra Rapid Drying Cement for Internal & External Screeds, tiles can be fixed after only 4 hours or a bonded ARDEX A 29 screed after 24 hours.

Overlaid plywood floors

Ensure that new or existing boards are dry i.e., conditioned to the environment in which they will be used, and are rigidly fixed, ventilated and free from barriers to adhesion.

Since plywood and other wood-based boards are not dimensionally stable, they should not be used in wet or damp conditions where they will be subjected to changes in atmospheric humidity.

Existing tongue and groove floorboards

Floorboards of traditional construction should be screwed or nailed down to the joists to provide a rigidly fixed, flat and adequately braced surface. Any existing floor polish, wax, old adhesive should be removed e.g., by sanding to expose a clean surface prior to tiling.

Plywood should have the backs and edges sealed e.g., with polyurethane varnish and be at least 15mm thick. They should be screwed the joists at 300mm centres or less.

The board surface should be clean and free of barriers to adhesion e.g., fire retardants, impregnated wax etc. Some floor systems require the joints to be glued together and guidance from the manufacturer should be sought. The timber should be at an equilibrium moisture content i.e., the state of dryness it will attain in normal service conditions, at the time it is covered. In all cases, the timber surface to be tiled should be stable and adequately strong and suitably rigid to withstand the imposed traffic, loads and vibration without deflection.

Extra noggins may be required between joists to stiffen floors as advised in BS 5385-3. The timber floor surface must only be primed with either ARDEX P 51 Primer undiluted or ARDEX P 82 Primer. Other proprietary manufacturer's primers are not recommended. Level with a suitable ARDEX levelling and Smoothing product prior to installation.

Ceramic tiles should not be used on timber-based boards in wet areas.

Calcium sulphate-based screeds i.e. Anhydrite

Ensure the calcium sulphate-based screeds have been laid and prepared in accordance with the manufacturers' recommendations. Generally they require sanding and drying to a moisture content of 0.5% or less. Prime with ARDEX P 51, diluted 1:3 with water or, dependent of the information from the gypsum screed manufacturer, a suitably sand blinded coat of an epoxy primer such as ARDEX R 3 E may be required.

Existing glazed ceramic tiling

Ensure existing tiling is well adhered and can support the new tile bed. Thorough cleaning and rinsing off is essential. Prime the tiles with ARDEX P 82 Primer (internal dry areas only) or ARDEX P 4 Primer.

Fibre-reinforced cement boards and lightweight tile backer boards

Install boards to BS 5385 i.e. moisture-resistant boards screwed to seasoned framework at maximum 300mm centres vertically and horizontally. Important note: Obtain manufacturer's confirmation that boards are suitable for tiling and for relevant fixing instructions.

Asphalt-sanded

With a well adhered sand key, priming is not required. Internal areas only. If sand key is poor or worn off, proceed as for smooth asphalt.

Asphalt-smooth

Internal flooring grade only. Must be of suitable grade, clean, in sound condition and have adequate cohesive strength. Priming with ARDEX P 82 Primer recommended. Internal dry areas only.

Underfloor heating

Concrete, cement/sand screeds or calcium sulphate screeds containing underfloor heating should be fully commissioned prior to installation of the mat. Electric undertile mats/cables should be encapsulated in a suitable levelling and smoothing compound prior to the installation of the mat.

STORAGE AND SHELF LIFE

Can be stored for approx. 12 months in dry rooms away from direct sunlight

NOTE: For the latest technical or health and safety data on this product, consult the current technical or health and safety data sheet online at www.ardexbuildingproducts.ie

NOTE: The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

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