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PRODUCT DATA SHEET

# ARDEX INDORTEC FLEXBONE MATTING - 2E

**Unique, loose-laid, floating uncoupling mat for unprepared and difficult substrates**

## Features

- Fast installation: Preparation of level, solid floors only requires a simple sweep of the floor. No removal of residue, laitance or priming required with immediate tiling to contaminated and stained floors, wooden floors, cracked screeds and mixed substrates.
- Significantly reduced labour time and costs: Minimal preparation.
- Fast-track tiling for fresh screeds: Laid on cement:sand screeds or concrete when they are ready to be walked on, or fresh calcium sulfate screeds up to a maximum of 1.5% CM residual moisture.
- Tiled surface can be easily removed and replaced.
- Can be stored for approx. 48 months in dry rooms, away from direct sunlight.



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# ARDEX INDORTEC FLEXBONE MATTING - 2E

## Unique, loose-laid, floating uncoupling mat for unprepared and difficult substrates

### DESCRIPTION

ARDEX Indortec Flexbone Matting - 2E is a loose laid uncoupling mat, providing a floating system over difficult substrates i.e. bitumen and anhydrite screeds for new tiling, it is also ideal to protect existing floor coverings.

### USE

Ideal for the installation of large format, ceramic and porcelain tiles, slabs and natural stone with a minimum 200mm x 200mm format size. 100% uncoupling loose lay mat without the need to bond to the substrate. Can be used on most internal and difficult floor substrates, providing the surface is flat (SR1 minimum). Counteracts and therefore minimises tension stresses between substrate and rigid floor finish to be installed. Prevents reflective cracking caused by shrinkage cracks, board joints and lateral movement. Allows a safe installation onto challenging substrates. Suitable for internal flooring; renovation and new construction, domestic and commercial areas in medium duty applications. Suitable for light trafficked commercial areas such as office walkways, department store concessions, trade show stands etc. Suitable for car showrooms, if cars are manually moved (not driven) onto completed tiled floors. Recommended for heated floors, new concrete cement and sand screeds, rigid and deflection free timber and existing load bearing floor surfaces.

### Restrictions: NOT suitable for

- Exterior environments
- Substrates with deflection (vertical movements).
- Uneven floor surfaces.
- Cement:sand screed subjected to curling
- Bridging movement joints.
- Heavy traffic areas.
- Use with levelling clip systems.
- Wet areas (use ARDEX Indortec Flexbone

### Matting - VA

- Translucent/Moisture sensitive stone used on new damp concrete or screed.
- Use with agglomerated stone tiles that exhibit a tendency to curl. Seek further guidance from the tile manufacturer.

### SURFACE PREPARATION - General

Ensure surfaces to be tiled are flat to SR1 tolerance as recommended in BS 5385-3.

Substrates must be load-bearing, pressure resistant, level and even to SR1, and free of deflection. The ARDEX Indortec Flexbone Matting - 2E is suitable for bridging static cracks providing differences in height can be excluded.

Always ensure the correct ARDEX adhesives and ARDEX grouts are selected for the installation. See ARDEX TECHNICAL DATA SHEETS on adhesives and grouts for more information.

ARDEX Indortec Flexbone Matting - 2E can be used in internal domestic and medium duty commercial dry floor areas.

**IMPORTANT NOTE:** Do NOT install ARDEX Indortec Flexbone Matting - 2E or tiles in temperatures below 5°C.

### TILES

Type of Floor Material	Minimum Size	Minimum Thickness
Ceramic	200 mm x 200 mm	10mm
Porcelain	200 mm x 200 mm	8 mm
Natural Stone	200 mm x 200 mm	15 mm

Contact ARDEX TECHNICAL ADVISORY AND SPECIFICATION SERVICE for further advice on other materials.

### AREAS OF APPLICATION

ARDEX Indortec Flexbone Matting - 2E can be loose laid on most floor background types providing the surface is level and flat, brushed clean, suitably load-bearing and pressure resistant.

- New and existing cement:sand screeds/concrete.
- Calcium Sulfate/Anhydrite (Gypsum) based screeds\*\*.
- Bitumen Surfaces and Mastic Asphalt screeds\*.
- Wooden Surfaces\*.
- Substrates with problem adhesion such as contaminated areas.
- Ideal for heritage floor areas where existing floors must be protected.

\*For further information contact ARDEX TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

\*\*Up to 1.5%CM residual moisture content.

### Surface regularity

Surface Regularity is defined as the deviation in height of a surface. In simpler terms, it is the 'flatness' or 'measure of unevenness' of the surface. ARDITEX NA, ARDEX K40 FLOW or ARDEX K40 HB as appropriate for the sub floor may be used to correct floors to SR1 (3mm or less under a 2 metre straight edge).

**N.B. When using larger format tiles, it is essential that the substrate is as level as possible, ideally better than SR1, as this will avoid excessive bedding out of adhesive.**

### BACKGROUNDS/BASES/APPLICATION AREAS

Fresh, Slightly Damp Concrete	✓	Timber Floors	✓
BAL BOARD/Tile Backer/Fibre Cement Boards	✓	Unglazed Ceramic Tiles/Hard Natural Stone	✓
Cement:Sand Screed (including new green screeds when walkable)	✓	Fresh Anhydrite/Sulfate Screeds	✓
Glazed Tiles	✓	Overlaid Timber Floors - 15mm	✓
Mastic Asphalt	✓	Vinyl Tiles/Sheets	✓
ARDEX DPMs/Epoxy Coatings	✓	Bitumen	✓
Existing and Cracked Tiles	✓	Metal	✓

ARDEX Indortec Flexbone Matting - 2E can be used on most internal floor surface if the floor is sound, flat and dry in line with recommendations and do NOT require any priming.

Contact ARDEX TECHNICAL ADVISORY AND SPECIFICATION SERVICE for further information.

### USAGE & SERVICE CONDITIONS

#### Undertile Heating

The background must be suitably load bearing and free from any deflection. Ensure the heating system is installed correctly in accordance with the heating manufacturer's recommendations. All electrical undertile heating elements must be encapsulated within an ARDEX levelling compound i.e. ARDITEX NA, ARDEX K40 FLOW or ARDEX K40 HB as appropriate for the sub floor. Allow to dry before installing ARDEX Indortec Flexbone Matting - 2E.

#### Heated Cement: Sand Screeds

- Allow Portland cement:sand screeds to dry for a minimum of 3 weeks (at 20°C) and commission heating system in accordance with BS requirements prior to tiling

When using ARDEX rapid drying screeds, please refer to the relevant technical data sheet for typical drying times.

### APPLICATION

1. The substrate must be even, load bearing and swept free from debris.

Only if necessary, the floor can be levelled using a suitable ARDEX smoothing and levelling compound such as ARDITEX NA, ARDEX K40 FLOW or ARDEX K40 HB.

2. Roll out the ARDEX Indortec Flexbone Matting -2E with the blue mesh side up. Roll out from the corner and cut 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. Note: leave a 6mm movement joint around the perimeter or use ARDEX AQUADRAIN EDGE foam strip.

3. Butt joint the edges of the ARDEX Indortec Flexbone Matting - 2E. The overlapping blue mesh covers the joints between the roll lengths. ARDEX Indortec Flexbone Matting - 2E is to be laid with all necessary expansion joints in place.

To ensure freedom of movement of the subsequent covering structure, tape all abutting sheet joints and movement joints using a suitable proprietary self-adhesive tape to protect against the entry of the wet adhesive bedding material through the joints onto the existing floor during the installation.

4. Apply the ARDEX Watec ST Seam Reinforcement Mesh Tape to all ARDEX Indortec Flexbone Matting - 2E roll end joints.

5. The adhesive consumption requirement to fill the bone shaped cavities and the mesh will require an extra 2mm of adhesive per square metre. To apply tiles, mix and apply an ARDEX flexible adhesive to the mat using a suitably sized notched trowel. Ensure the final bed thickness of the tile adhesive does not exceed 5mm over the ARDEX Indortec Flexbone Matting - 2E.

**NOTE: Following application of the ARDEX Indortec Flexbone Matting - 2E and the commencement of tiling care should be taken to ensure that the membrane does not lift from the base. When lifting tiles to check solid bed fixing, ensure the mat is weighted down (boxes of tiles/boards etc.) or when laying tiles on any new section of the ARDEX Indortec Flexbone Matting - 2E mat.**

6. Once the ARDEX Indortec Flexbone Matting - 2E is set, select a suitable grout such as ARDEX-FLEX FS or ARDEX-FLEX FL GROUT. ARDEX ST SEALANT must be used for all perimeter movement joints.

7. Ensure you follow all manufacturer installation instructions for the adhesive used and all applicable industry standards.

### TECHNICAL ADVISORY SERVICE

For free expert guidance on use of this product, or any aspect of tiling, contact the ARDEX TECHNICAL ADVISORY AND SPECIFICATION SERVICE on Tel: 01440 714939 or Email: info@ardex.co.uk

### SHELF LIFE

48 months under normal dry conditions. Protect from frost, damp and sunlight.

### PRODUCT INFORMATION

Colour: Grey

Pack sizes: 20m rolls / 5 x 2m sheets  
Sheet Width: 1m plus 50mm overlapping  
Sheet Thickness: 3mm  
Sheet Weight: approx. 1.8kg / per sheet  
Roll Weight: approx. 18kg

### QUALITY AND ENVIRONMENTAL STANDARDS

Manufacturing quality assurance standards conform to BS EN ISO 9001. Satisfies the environmental management requirements and operational scope of ISO 14001.

### CONDITIONS OF SALE

Sold subject to the Company's Conditions of Sale. Available on request.

For sales and technical queries, contact:

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NOTE: ARDEX reserves the right to update instructions, technical data and other information at any time without notice.

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.

**TECHNICAL ADVICE HELPLINE:**  
**01440 714939**  
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