



ARDEX UI 720 FLEXBONE

Floating Uncoupling System

True 100% uncoupling

Use with porcelain, ceramic, quarry and natural stone tiles

Significant savings through reduced substrate preparation times

Helps to prevent grout joint and tile damage from movement & deflection

Perfect for use over contaminated substrates

Ideal for frequently-changed floor coverings



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DESCRIPTION

ARDEX UI 720 FLEXBONE Floating Uncoupling System is a revolutionary, loose-laid floating system that provides 100% uncoupling. The system's separation from the underlying substrate results in significant time and cost savings through minimal required substrate preparation. ARDEX UI 720 FLEXBONE has a unique bone-shaped pattern with GripLock Technology for the highest level of adhesive-to-sheet bond strength. The sheet is constructed of a highly durable, flexible plastic and a laminated, topside glass fibre mesh that contains self-sticking overlaps for easy seam connection. Residual moisture in the substrate is distributed evenly through a system of channels with more than 10,000 perforations per square metre. These channels allow moisture to discharge via the perforations and covering joints. For internal applications only.

FOR USE IN

- Offices
- Hotel Rooms
- Medical Offices
- Residential Properties
- Retail Shops
- Car Showrooms

TO (SUBSTRATES)

- Concrete substrates (incl. fresh, slightly damp concrete)
- Timber subfloors
- Substrates with problem adhesion
- Mixed substrates made of different types of materials
- Vinyl floor coverings
- Oil contaminated floors
- Existing and cracked tiles
- Painted floors
- Cutback adhesive
- Epoxy and polished coated floors

SUBSTRATE PREPARATION

Substrates must be flat and structurally sound. Vacuum or sweep away all dust and debris. Should pre-levelling or subfloor repair be required, this should occur before ARDEX UI 720 FLEXBONE installation. See www.ardexaustralia.com for detailed information and solutions.

Timber Floors (Sheet Timber)

Particleboard and plywood, with the exception of unbonded timber such as laminated flooring or strip timber floors (e.g. cypress pine). Timber floors must be structurally sound and the maximum load deflection for tiles must not exceed 1/360 (1/720 for tiles >350mm) of the span. Joist span must comply with AS 1684. Strip timber floors must be fibre-cement sheeted prior to tiling.

Compressed Fibre-Cement Sheet (Floors)

These sheets must be fixed strictly in accordance with manufacturer's instructions and be deemed suitable for the application by the manufacturer.

Existing Ceramic Tiles

Existing tiles must be firm and stable.

Existing Vinyl Tiles

This applies only to solid vinyl flooring which must be well

bonded to the substrate, do not tile over thin vinyl flooring that has foam backing.

MOVEMENT JOINTS

All existing expansion joints, isolation joints and construction joints must be honoured up through the substrate, uncoupling membrane and tile or stone and must be in accordance with Australian Standards AS 3958. Please note that the tile or stone wall base should not be bonded to the tile or stone flooring. In these areas, proper installation is achieved with ARDEX UD 146 Edge Insulation Strips, which has a self-sticking adhesive foot.

UNCOUPLING MAT INSTALLATION

Remove the shrink-wrap from the roll of ARDEX UI 720 FLEXBONE and unroll it onto the floor. Shaking the material once as it is unrolled can help it to relax. Loosely place the ARDEX UI 720 FLEXBONE with the glass fibre mesh weave facing upwards. Align the lengthwise edge of the material exactly with that of the adjacent section. Except for joint areas, edges must contact, but not overlap. Around columns, pipes, cabinets and other floor penetrations and restraining structures, an expansion joint through the entire covering thickness, including ARDEX UI 720 FLEXBONE, of about 8 - 10 mm width must be formed with the ARDEX UD 146 Edge Insulation Strip. The joint areas of the individual lengths are secured by overlapping the mesh weave at the sides. Joint areas at the top ends as well as any cut areas are bonded using the self-adhesive ARDEX UD 158 Seam Reinforcement Mesh Strip. If ARDEX UI 720 FLEXBONE is installed over a stained or moisture sensitive substrate with the intent to remove it, use a plastic sheet laid crease-free to act as a separating layer between the substrate and the membrane to protect against adhesion from any adhesive used during the tile or stone installation. Structural, expansion and field perimeter joints are formed by dividing the ARDEX UI 720 FLEXBONE to the required width. The movement joints are to be covered with self-adhesive ARDEX UD 156 Movement Joint Tape to protect against the entry of adhesive and grout. The arrangement of the expansion joints in the tile or stone installation must be aligned with the divisions of the mats. Do not mechanically fasten any material through the ARDEX UI 720 FLEXBONE, as this will compromise its uncoupling capabilities.

FLOORING INSTALLATION

Installation of tile or non moisture sensitive natural stone may occur with one of the following ARDEX adhesives:

- ARDEX X78 MICROTEC Premium Polymer Modified Tile and Stone Adhesive
- ARDEX X 77 MICROTEC Fibre Reinforced Tile and Stone Adhesive
- ARDEX S28 Neu MICROTEC Large Format Tile and Moisture Sensitive Natural Stone Adhesive
- ARDEX X 17 Flexible Non Slump Wall and Floor Tile Adhesive
- ARDEX X 18 Fibre Reinforced Flexible Non Slump Wall and Floor Adhesive
- ARDEX X 52 Economical Flexible Rubber Modified Tile Adhesive
- ARDEX X 56 Highly Flexible Tile Adhesive

After mixing the appropriate ARDEX adhesive, apply the adhesive to the ARDEX UI 720 FLEXBONE with the flat side of a notched trowel (keying in) to fill in the bone shaped cavities. Comb additional adhesive "wet on wet" over the mat with the appropriate notched trowel for the size of the tile or stone to be installed, and directly lay the tile or stone on top. Periodically remove and check tile or stone to ensure full coverage. The adhesive thickness between the top of the ARDEX UI 720 FLEXBONE and the tile side must not exceed 6mm. Using the correct notched trowel will provide proper thickness. Install

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metal edge or transition strips in a force-locked connection to the substrate where the tile ends along bordering, lower-lying covering surfaces. Avoid foot traffic during installation and until the adhesive has cured.

Only ARDEX epoxy grouts or ARDEX cement based grouts mixed with ARDEX Grout Booster may be used. The gauging mix for the cement based grouts shall be 80:20 (Grout Booster : Water).

PACKAGING

ARDEX UI 720 FLEXBONE is available in rolls of 1m wide x 20m long. Coverage of 20m².

Pay attention to the following:

The ARDEX UI 720 FLEXBONE must not be bonded at any point, otherwise thermally caused buckling may occur. Never expose ARDEX UI 720 FLEXBONE to jobsite traffic. Avoid foot traffic during installation and until the adhesive has cured. Protect in a dry area free of sunlight. Tile size must be a minimum of 200mm x 200mm x 8mm.

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

DISCLAIMER

The technical details, recommendations and other information contained in this datasheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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This data sheet was issued in November 2021 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.