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# ARDEX UI 720 FLEXBONE

## Floating Uncoupling System

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True 100% uncoupling

Use with porcelain, ceramic, quarry and natural stone tiles

Up to 50% time savings

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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# ARDEX UI 720 FLEXBONE

## Floating Uncoupling System

### 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](http://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 (1/500 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 X 78 MICROTEC Premium Polymer Modified Tile and Stone Adhesive
- ARDEX X 77 MICROTEC Fibre Reinforced Tile and Stone Adhesive
- ARDEX S 28 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 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.

### PACKAGING

ARDEX UI 720 FLEXBONE is available in rolls of 1m wide x 20m long. Coverage of 20m<sup>2</sup>.

### Pay attention to the following:

The ARDEX UI 720 FLEXBONE must not be bonded at any point, as 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. ARDEX recommends a polymer modified tile and stone adhesive with an ISO 13007 designation to install tile or stone on top of the ARDEX UI 720 FLEXBONE.

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