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# ARDEX DS 60

## De-Coupling Mat

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Removable floor tiling system – remove tiles without damaging substrate

Ideal for leased or heritage applications

Unique floating system – isolates base movement with minimal build height

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# ARDEX DS 60

## De-Coupling Mat

### DESCRIPTION

The ARDEX DS 60 De-coupling System is a unique tiling solution for domestic and highly trafficked commercial floors which have the dual requirements of a hard wearing tile surface and a cost effective reinstatement of the concrete floor at the end of the lease period or upon refurbishment.

The system comprises of a Butynol® mat, a washable mat adhesive, and adhesive recommendations for fixing the tile. Together they enable tiles to be fixed in large areas and provide at least 5 years of medium load performance. Since the mat is adhered with a washable paste once the system is removed the paste can be washed off leaving the substrate in the original undamaged form.

The DS 60 mat may also be used as slip membrane to isolate movement.

When placing the mats ensure the joins in the mats are not positioned over subfloor expansion/contraction joints or cracks that are over 2mm wide.

ARDEX DS 60 can be used in internal, dry areas. It is suitable for use with underfloor heating. ARDEX DS 60 is capable of withstanding hand pallet loads with a maximum gross weight of 350kg. For fixed loads the maximum capacity should not exceed 150kg/m<sup>2</sup>.

### FOR FIXING (Tile Types)

Fully vitrified and ceramic tiles, porcelain, concrete stone tiles e.g. terrazzo, natural stones (excluding moisture sensitive), glass and porcelain mosaics.

Porous tiles such natural stone, terrazzo, cement tiles and untreated terracotta - provided these are not exposed to service temperatures above 30°C.

### TO (Substrates)

Designed for use over domestic or commercial internal concrete and timber floors in dry areas (level and flat, see substrate preparation).

### SUBSTRATE PREPARATION

The substrate must be dry and free from all grease, oil, dirt, loose materials and other surface contaminants which reduce surface friction (e.g. coatings). The surface should be true to plane.

If the variation in surface flatness is greater than 1mm in 1metre, then the concrete slab should be leveled with ARDEX LQ92. Before applying ARDEX LQ92 to the concrete surface, the floors should be primed with ARDEX Multiprime. Any raised edges (due to adjoining concrete slabs or fractures in existing slabs), residual contaminants that create raised hardpoints (e.g. concrete or plaster spatter), surface spalls and holes should be remediated prior to laying the mat. Where

either high points or linear changes in height are greater than 2.0mm then the surface should be remediated by either mechanical surface preparation such as grinding or the application of ARDEX LQ92.

### Timber Floors (Sheet Timber)

Particleboard, plywood, mdf and cork, 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 must not exceed

1/360 of the span. Timber floors must have good underfloor ventilation and underfloor moisture levels must be stable during the life of the flooring system. Free water sources must not be allowed under timber floors as dimensional stability will be compromised.

### APPLICATION OF THE MAT

When placing the mats ensure the joins in the mats are not positioned over subfloor expansion/contraction joints or cracks that are over 2mm wide.

Expansion joints in the tiling should be located over mat joints so that these are telegraphed through the whole system and finished appropriately according to the Australian Standards.

Once the lengths are laid out fold over sections and apply ARDEX AF360 adhesive to the substrate with a roller and lay the mat back onto the adhesive. Ensure that mat is smooth by rolling over the mat with a carpet roller.

Bond any end laps in a similar manner ensuring the relative position of the sheets is maintained. Ensure the surface is free from dirt or other contaminants. The floor is now ready to be tiled.

### DIMENSIONS

ARDEX DS 60 is available in 20m x 1.4m x 0.4mm rolls.

### FIXING TECHNIQUE FOR TILES

Tiles can be fixed to the decoupling mat using a range of ARDEX tile adhesives dependent on the tile type and substrate. ARDEX X78 or ARDEX X18 tile adhesive is recommended or alternatively for fast set requirements ARDEX Quickbond with ARDEX Abalastic. In the instance of natural stone or dimensionally instable tiles ARDEX S28 Neu with ARDEX E90 should be used, and for timber floors ARDEX X56.

Perimeters must be framed with either a brass or anodized aluminium angle that should be sized to finish level with the top of the tile. This acts to isolate the tiling system, strengthen the edge row and enables ease of removal of the system.

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Grouting can be carried out as usual using ARDEX Grout Booster according to the product recommendations.

Please refer to specific adhesive product datasheets for further product information or contact ARDEX Technical Services for further advice.

### **SHELF LIFE**

12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

### **SAFETY DATA**

Avoid contact with skin and eyes; in case of contact with the eyes, wash out immediately with fresh running water. If irritation continues, seek medical attention. Wear protective gloves, clothing and eye protection. Avoid inhaling dust/fume/gas/mist/vapours/spray. If fumes or combustion products are inhaled remove from contaminated area. Ensure adequate ventilation during application. Check with your local Council regarding the disposal of contents. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at [www.ardexaustralia.com](http://www.ardexaustralia.com)

### **GUARANTEE**

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: [technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure".

### **DISCLAIMER**

The technical details, recommendations and other information contained in this data sheet 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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