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# ARDEX DS 60

## Decoupling 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 virtually no build height

Suitable for large areas where crack isolation is necessary

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# ARDEX DS60

## Decoupling Mat

### DESCRIPTION

The ARDEX DS60 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 original floor at the end of the lease period or upon refurbishment.

The system comprises of a butyl 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.

ARDEX DS60 mat may also be used as a slip membrane to isolate movement.

When placing the mats ensure the joints in the mats are not positioned over subfloor expansion/ construction joints or cracks that are over 2mm wide without treatment. ARDEX provide crack repair solutions, contact ARDEX Technical Services for further information.

ARDEX DS60 can be used in internal, dry areas. It is suitable for use with underfloor heating. ARDEX DS60 System is capable of withstanding heavy loads associated with commercial environments.

### 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 as natural stone, terrazzo, cement tiles and untreated terracotta - provided these are dimensionally stable and 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, 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 joints 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 AF 360 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 vinyl 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. After 30 minutes the floor is ready to be tiled.

### DIMENSIONS

ARDEX DS60 is available in two sizes 20m x 1.4m x 0.4mm and 40m x 1.4m x .04mm where available.

### MOVEMENT JOINTS

Movement joints must be in accordance with Australian Standard AS 3958. As a general guide, movement joints should be incorporated at 4.5 metre centres and around the perimeter of the floor. Any structural movement joints must be carried through to the face of the tiling. These joints must be a minimum of 6mm wide and kept free from adhesive and grout droppings. They should be filled with a suitable flexible material such as ARDEX SE or ST silicone.

### FIXING TECHNIQUE FOR TILES

Tiles can be fixed to the decoupling mat using a range of ARDEX tile adhesives dependant on the tile type and substrate. ARDEX X 78 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 unstable tiles ARDEX S16 with ARDEX E 90 should be used, and for timber floors ARDEX X56.

Perimeters must be framed with either a brass or anodised 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.

Grouting can be carried out as usual using any of the ARDEX grout range according the product recommendations.

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

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