



ARDEX DS60

Decoupling Mat

Unique floating system – isolates base movement with virtually no build height

Subfloor Versatility - install tiled surfaces in more situations

Removable tiling system – remove tiles without damaging substrate

Suitable for large areas where crack isolation is necessary

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ARDEX DS60

Decoupling Mat

DESCRIPTION

The ARDEX DS60 Decoupling System is a unique tiling solution for domestic and highly trafficked commercial floors. The ARDEX DS60 Decoupling Mat isolates a tiling system from possible subfloor movement, protecting floors from cracking and damage.

ARDEX DS60 System is capable of withstanding hand pallet loads with a maximum gross weight of 350kg. For fixed loads the maximum capacity should not exceed 150kg/m².

The Decoupling System includes the ARDEX DS60 Decoupling Mat and a washable adhesive, ARDEX AF 360. ARDEX also recommends ARDEX adhesives for fixing tiles. See 'Fixing Techniques for Tiles' below.

ARDEX DS60

Thickness 0.4mm
Width 1.4m
Length 20m & 40m rolls available

ARDEX AF 360 ADHESIVE

15L pail
Coverage: 7/8m²/L

Since the mat is adhered with a washable paste the paste can be washed off once the system is removed, leaving the substrate in the original undamaged form.

USAGE

- Installed as a permanent or floating system
- Isolates tiled floors from substrate movement
- Isolates tiled surfaces from substrates that are difficult to adhere (eg. bitumen membranes, epoxy and old composite cork or vinyl flooring)
- Suitable for use with underfloor heating

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.

Concrete Floors

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

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.

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 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.

MOVEMENT JOINTS

Movement joints should 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 ARDEX DS60 Decoupling Mat using a range of ARDEX tile adhesives dependant on the tile type and substrate. ARDEX X78 tile adhesive is recommended. Alternatively ARDEX Quickbond with ARDEX Abalastic can be used for fast set requirements. In the instance of natural stone or dimensionally unstable tiles ARDEX S16 with ARDEX E90 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.

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.

Grouting can be carried out as usual using any of the ARDEX grout range according to the product recommendations. Please refer to specific adhesive product datasheets for further product information or contact ARDEX Technical Services for further advice.

PACKAGING

20m & 40m rolls x 1.4m wide

ARDEX Australia Pty Ltd

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