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# ARDEX DS 40

## Impact Sound Reduction and Decoupling System

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Decoupling and sound reduction system for the installation of tiles, slabs, natural stone and concrete pavers

The decoupling function minimizes tension between the substrate and the part to be installed, is crack bridging and allows a safe installation onto critical substrates

The sound reduction function reduces remarkably the transmission of impact and air-borne sound – impact sound reduction 14 dB

For renovation and new construction, domestic and commercial areas with loads up to 2 KN/m<sup>2</sup>

Very thin buildup of 4, 5 mm

Easy to apply and to cut

Suitable for heated screeds



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## Impact Sound Reduction and Decoupling System

### DESCRIPTION

Permanently elastic material with mineral fillers and PU – binders with back fleece and sanded surface.

### AREAS of APPLICATION

Internal floor;

For renovation and new construction, domestic and commercial areas with loads up to 2 kN/m<sup>2</sup>;

Decoupling and sound reduction system for the installation of tiles, slabs, natural stone and concrete pavers onto substrates as:

- concrete
- sand cement screed
- Magnesite screeds
- Masitcasphalt screeds
- Heated screeds
- Dry screed systems
- Wooden floors and wooden particle board
- old tiles and slabs
- old PVC and Parquet flooring

In wet areas according to OAO2 (domestic bathrooms with or without baseoutlet).

### SUBSTRATE PREPARATION

The substrate has to be dry, but must be firm loadbearing sound free from dust and release agents and rigid. Calcium sulfate screed have to be ground, vacuumed acc. to technical bulletin BEB and primed with ARDEX P51 Primer.

On absorbent substrates the mortar has to be applied in a thin layer, please trowel the mortar in firmly. After that apply the mortar in the required thickness. Dense, smooth impervious and wood surfaces should be primed with ARDEX P 82. Uneven surface have to be primed and levelled with ARDEX

Primer and Leveling compound. The DS 40 is crack bridging up to 1 mm.

### INSTALLATION

To avoid transmission of sound to adjacent walls please install sound strips along the walls. Lay the ARDEX DS 40 mats and cut. The ARDEX DS 40 mats can be easily cut with a carpet knife from the reverse side. Apply ARDEX FB9L with a 3 mm notch trowel if the surface is rough use a 4 mm notch trowel and lay the ARDEX DS 40 within the open time of the adhesive 10– 15 mm with fleece side into the fresh mortar

bed. Press the mat in with a trowel or float. Make sure the mats are fixed jointless to each other. Should adhesive come through the joints please take up the mat and clean it and repeat installation. Fix the mats always half bracing to avoid cross joints.

On absorbent substrate subsequent installation of tiles and slabs can be done immediately after installation of the ARDEX DS 40 Mat. In case of non-absorbent substrates after 2 hours. Prior to the installation please check the ARDEX DS 40 and close joints with tape like Tesa or Nopi.

The joints can also be filled with ARDEX S1K sealing compound.

For the installation of the coverings the ARDEX pourable mortars such as ARDEX FB9L, ARDEX FB9L should be used. For the installation of moisture sensitive natural stones also ARDEX S16 and ARDEX X32 can be used. Please ensure a solid bedding. The coverings to be installed should have a minimum size of 15x15 cm and a minimum breaking strength of 1500 N. Stoneware tiles should be at least 8 mm thick and natural stone should be at least 15 mm thick.

For the installation onto existing PVC and Parquet flooring please use ARDEX Premium UF2800 fixation which should be applied with a lamb's wool roller. After a flash of time of 30 min the ARDEX DS 40 Mats can be installed and pressed. After this the coverings can be installed as mentioned above.

For grouting please use any flexible grout out of the ARDEX range. Apply ARDEX DS 40 at temperatures above + 5° C. In doubt apply trial areas.

### Notes:

Construction and movement joints in the substrates have to be brought up. Do not use ARDEX DS40 in the exterior and permanently wet areas.

### PACKAGING

Pallet or Carton:

Carton 10 mats = 3,75 m<sup>2</sup>

Pallet: 300 mats = 112,50 m<sup>2</sup>

### STORAGE & SHELF LIFE

ARDEX DS40 can be stored for approx. 36 month in dry rooms.

### TECHNICAL DATA

Size of the Mat:

750 mm x 500 mm x 4.5

mm

0,375 m<sup>2</sup>/Mat

Weight: approx.

5.1 kg/m<sup>2</sup>

Color:

green

Impact sound reduction acc.

DIN EN ISO 140–8: 14 dB

Fire rating:

B2 only mate

B1 with Tile

Thermal transfer resistance:

0.0036 m<sup>2</sup>K/W

Thermal conductivity:

0.11 W

Vapor transmission rate:

450 μ

Resistant to chair castors:

Yes

Suited for floor heating:

Yes

The technical details, recommendations and other information contained in this datasheet are given in good faith and represents 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 National or Local Standard, our instructions & recommendations, and only for the uses they are intended. Regional specific recommendations, standards, codes of practice, building regulations or industry guidelines may affect specific installation recommendations. Our Company policy is one of continuous Research & Development, we therefore reserve the right to update this information at any time without prior notice. We guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. The supply of our products and services is also subject to certain terms, warranties & exclusions; and these details will be made available to you on request. You should make yourself familiar with them.