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# ARDEX DS 70

## Recycled Rubber Impact Insulation Mat

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High performance soundproofing matting for insulating against footfall and impact sound

For use under ceramic and stone tile, luxury vinyl tile and timber floorcoverings

Isolates the floor finish from substrate movement and cracking

Suitable for use with underfloor heating systems

Made from >90% recycled rubber

Rated for  $\Delta IIC$  19 dB to ASTM E 2179

5mm thickness

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# ARDEX DS 70

## Recycled Rubber Impact Insulation Mat

### DESCRIPTION

ARDEX DS 70 is a high-performance, resilient rubber flooring underlayment for the reduction of impact sound, decoupling and crack isolation under hard floorcoverings.

ARDEX DS 70 is made from 92% post-consumer recycled, wear and water-resistant rubber granules and is rated in accordance with ASTM E 2179 to provide a 19 dB improvement when tested to ISO 10140-3.

ARDEX DS 70 also acts as a decoupling mat to isolate cracking and substrate movement from the flooring finish.

### USE

ARDEX DS 70 is suitable for use under hard flooring surfaces such as ceramic and stone tiles, luxury vinyl tile and timber in both dry and wet areas in commercial and domestic locations.

### SUBSTRATE PREPARATION

The subfloor must contain an effective damp proof membrane and be dry, with an equilibrium relative humidity of 75% or below. Where an effective damp proof membrane is absent, or the relative humidity of the subfloor is above 75% RH, contact ARDEX Technical Services for the correct product selection.

The surface being adhered to must be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents and other barrier materials. The surface being adhered to must also be sound and smooth in accordance with the relevant clauses of NZS/AS 1884:2013. Any dust should be removed using suitable vacuum equipment, prior to applying ARDEX DS 70, as it can affect the adhesion and performance of the matting.

Uneven subfloors should be levelled with the appropriate ARDEX levelling and smoothing compounds e.g. ARDITEX NA or ARDEX K 15 Micro.

ARDEX A 45 can be used for repairs to the subfloor etc., in accordance with the product data sheet.

Joints, nail holes and imperfections in plywood, or minor surface damage to existing levelling and smoothing compounds i.e. footprints or trowel marks, may be pre-smoothed prior to the application of ARDEX DS 70, using ARDEX Feather Finish in accordance with the product data sheet.

Fabricated underlays such as flooring grade plywood should be installed where required over existing timber bases as per NZS 3604:2011. Wood-based fabricated underlays should be suitable for the floorcovering and

be at the equilibrium moisture content they will have in service at the time they are covered. Light organic solvent preservative (LOSP) treated plywood is not a suitable substrate.

### APPLICATION

#### Perimeter Isolation

To avoid the transmission of sound to adjoining walls/columns, install ARDEX Perimeter Isolation Strip along the perimeters before placing and trimming the ARDEX DS 70.

Attach the ARDEX Perimeter Isolation Strip to the perimeter wall of the entire sub-floor as well as around the perimeter of any protrusions. Temporarily fasten the ARDEX Perimeter Isolation Strip with masking tape, duct tape, carpet tape or spot gluing. The ARDEX Perimeter Isolation Strip will later be trimmed flush with the top layer of flooring above the ARDEX DS 70.

#### ARDEX DS 70

Remove packaging from the ARDEX DS 70 and unroll it onto the floor. Shaking the material once as it is unrolled will help it to relax.

Place the ARDEX DS 70 so that it is perpendicular to the subsequent installation direction of the flooring finish.

ARDEX DS 70 can be adhered with any ARDEX flooring adhesive that is recommended for rubber installations. For timber floorcovering installations ARDEX AF 480 must be used.

Install one half of ARDEX DS 70 at a time. Fold the mat in half lengthwise i.e. halving the width. Apply the adhesive using an A2-sized notched trowel in strict accordance with the datasheet. Roll the ARDEX DS 70 into the adhesive after the airing time, but within the working time of the ARDEX flooring adhesive. Continue to do the same for the second half of the mat.

Press the mat into the adhesive with a trowel or float or metal roller within 45 minutes of laying the mat. Make sure the mats are fixed without any gaps. Should adhesive come through the joints, take up the mat, clean it, and repeat installation.

Continue the process for each consecutive piece of ARDEX DS 70 working at a pace where you are always rolling the mat into the adhesive during the advised working time.

Prior to the installation of floor finishes or waterproofing, check the joints between the mats of ARDEX DS 70 and fill any gaps with ARDEX ST neutral cure silicone.

## Wet Areas

If required, install ARDEX A 48 as a floating screed and ARDEX A 30 to produce falls to the waste in accordance with the product datasheets. Please note the drying time of the screed used before liquid waterproofing is applied. Alternatively, the screed and smoothing can be applied prior to the ARDEX DS 70.

Apply two coats of ARDEX WPM 155 or ARDEX WPM 002 waterproofing membranes over the ARDEX DS 70 in accordance with the respective product datasheet. Allow each to dry to the specified drying time. If required for luxury vinyl tile installation, smoothing can be done using ARDEX Feather Finish in accordance with the product datasheet.

## Floor Finish - Tile

Install tiled finishes using either ARDEX X 18, ARDEX X 52, ARDEX X 56 or ARDEX X 77 tile adhesives. Acoustic performance may vary marginally depending on the adhesive used. Ensure solid bedding of the tiles by occasionally removing tiles and checking there are no voids in the adhesive layer. Where the tile size exceeds 400mm in size, apply more adhesive by buttering the back of the tile and/or using a larger size notched trowel to spread the adhesive on the ARDEX DS 70.

Grout the tiled surface using an ARDEX cement-based grout mixed with ARDEX Grout Booster in accordance with the product datasheet, or an ARDEX epoxy grout.

## Floor Finish - Luxury Vinyl Tile

Apply a 3mm layer of ARDITEX NA to the surface of the ARDEX DS 70 matting to limit potential of underlying layers showing through the luxury vinyl tile surface. Within a dry area, the luxury vinyl tile finish can be installed using either ARDEX AF 175 or ARDEX AF 180 MS. For wet area installation, only ARDEX AF 180 MS is recommended. Install the floorcovering in accordance with the adhesive product datasheet.

## Floor Finish - Timber (dry area only)

Adhere ARDEX DS 70 to the substrate using ARDEX AF 480 MS and install timber flooring using ARDEX AF 480 MS. For solid, natural timbers, contact ARDEX for recommendations.

Please note that MS-based adhesives require humidity to cure, and being between two impervious substrates, ARDEX AF 180 MS will require particular attention to the airing time of the adhesive.

## PACKAGING

ARDEX DS 70 is packed in film-wrapped rolls of 1.2m x 9.1m at 5mm thickness.

## STORAGE

ARDEX DS 70 has a shelf life of 5 years when stored in good conditions, between 5°C and 30°C in the original packaging. Store rolls horizontally in dry conditions out of direct sunlight.

## PRECAUTIONS

ARDEX DS 70 is considered non-hazardous in normal use.

For further information, please consult the latest Safety Data Sheet.

## TECHNICAL DATA

<b>Packaging</b>	1.2m x 9.1m x 5mm
	10.92m <sup>2</sup>
<b>Weight</b>	45kg per roll
	4.12kg/m <sup>2</sup>
<b>Colour</b>	Black
<b>Sound reduction as per ASTM E 2179</b>	ΔIIC 19 dB
<b>Elongation</b>	50% min.
<b>Tear Strength</b>	205kPa
<b>Compression at 690kPa</b>	20-30%
<b>Shore A Hardness</b>	40
<b>Coefficient of Friction</b>	1.2
<b>Resistant to castor wheels</b>	Yes
<b>Suitable for heated floors</b>	Yes

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**Toll Free Technical Services:  
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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 New Zealand & Australian Standards, our instructions and recommendations and only for the uses they are intended. 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 effect 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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