ARDEX UD 150

Thin Layer Undertile Drainage Mat

Unbonded drainage mat for use under external tiled systems

Excellent drainage capabilities

Allows fast and full drying of tile system

Fully unbonded to allow access to waterproofing layer

Isolates cracking and substrate movement from the tiled surface

Allows directly adhered tile systems

High compressive strength and rigidity

Provides insulation against impact and footfall sound

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ARDEX UD 150
Thin Layer Undertile Drainage Mat

DESCRIPTION

ARDEX UD 150 is a thin, mesh-reinforced polypropylene drainage mat for use under directly adhered tiled systems. ARDEX UD 150 speeds up the drying process after rainfall and helps reduce the build-up of efflorescence.

ARDEX UD 150 is loose laid over the waterproofed surface allowing the installation of a fully adhered tiling system that is not directly adhered to the waterproofing membrane.

ARDEX UD 150 aids in the full drying of the tiled system and allows for adhesion and grouting products to reach their intended strength and freeze-thaw capabilities.

USE

ARDEX UD 150 is ideal as a drainage-decoupling layer in directly adhered external tiling systems on decks, balconies, patios and terraces.

SUBSTRATES

ARDEX UD 150 is suitable to be used over fully waterproofed substrates including concrete, screed, plywood, and compressed fibre cement.

ARDEX UD 150 may only be installed over ARDEX sheet waterproofing products ARDEX WPM 1000, ARDEX Butynol® and ARDEX TPO membranes.

Ensure that all sheet substrates have a deflection no greater than 0.5mm.

SUBSTRATE PREPARATION

Ensure that the underlying ARDEX waterproofing membrane has been installed in accordance with the appropriate product datasheet.

Ensure that any damages or sources of damage have been repaired or removed. Ensure that the underlying ARDEX waterproofing membrane is free of dust, dirt or debris.

TILE TYPES

ARDEX UD 150 is suitable to receive many tile types including fully vitrified and ceramic tiles, porcelain, and natural stone (excluding moisture sensitive).

Tiles must be a minimum of 200 x 200mm, and a maximum of 600 x 600mm in size. Minimum thickness for vitrified porcelain tiles is 8mm, glazed ceramic tiles (monocottura) 10mm and natural stone 20mm to cover the differences in flexural strength. Tiles must be frost resistant.

INSTALLATION

Refer to ARDEX UD 150 Installation Instructions for full instructions.

Install ARDEX UD 150 sheets with diffusion slits following the fall of the substrate. ARDEX UD 150 Sheets are placed butted together and taped using ARDEX UD 158 reinforcement mesh prior to tiling.

Tiles must be installed over ARDEX UD 150 using approved ARDEX tile adhesives. For a full list of suitable tile adhesives contact ARDEX Technical Services. Install in accordance with the appropriate product datasheet.

Install tiles in accordance with AS 3958. Use a flat trowel to skim a coat of tile adhesive over the mesh surface of ARDEX UD 150, before trowelling adhesive with a minimum notch size of 12mm. Ensure 100% coverage of adhesive on the back of the tile by back-buttering the tile before laying. Install movement joints at a maximum distance of 3m apart.

Grout using an ARDEX grout. If using a cement-based grout it must be mixed with ARDEX Grout Booster at a ratio of 1:1 with the water. Install in accordance with the appropriate product datasheet.

COVERAGE

One carton of ARDEX UD 150 contains 16m^2 of product in eight 2m^2 sheets.

The actual coverage achieved in practice is affected by installation technique, specifics of building design, and substrate differences.

PACKAGING

ARDEX UD 150 comes in a carton of 8 sheets of 1.02m x 1.96m x 9mm weighing approximately 16kg.

STORAGE

ARDEX UD 150 has an indefinite shelf life when stored in good conditions, between 5°C and 30°C. Store cartons/sheets horizontally in dry conditions out of direct sunlight. Store away from sources of puncture and physical damage. Store away from ignition sources and open flame.

PRECAUTIONS

ARDEX UD 150 is non-hazardous in normal usage, however good hygiene practices should be followed.

For the latest technical or health and safety information on this product, consult the current product data sheet online at: www.ardex.co.nz

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

ARDEX UD 150 shall only be installed over substrates that have a minimum fall of 1°.

Wind uplift needs to be assessed by a qualified engineer to ensure compliance with local requirements. Ensure that the ARDEX UD 150 system is calculated as a combined overall weight including adhesive, grout, silicone and tiles.

TECHNICAL DATA

Characteristics	Test Method	Nominal Value
Compressive strength		30MPa
Concentrated point load		< 2.4kN
Drainage capacity (i = 1.5%)	DIN EN ISO 12958	0.19 - 0.28 l/m/s
Impact sound reduction	DIN EN ISO 717-2	10mm tile: L'w = 17dB 20mm natural stone: L'w = 19dB
Temperature resistance (continuous)		-30°C to 70°C
Temperature resistance (intermittent)		80°C
Length		1.96m
Thickness (total)		9mm
Thickness (drainage core)		6mm
Width		1.02m

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.