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# ARDITEX NA

## Ultra Rapid Latex Levelling and Smoothing Compound

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Install floorcoverings after 4 hours, and ceramic tiles in as little as 3 hours

Can be used with confidence over old adhesive residues including bitumen

Excellent adhesion without priming to almost all substrates, including flooring grade plywood, ARDEX moisture barrier membranes and even ceramic tiles

Suitable for use over damp concrete substrates

Feather edge to 12mm in one application

Up to 30mm incorporating aggregate

Suitable for use on floors with underfloor heating

Suitable for use over timber substrates

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# ARDITEX NA

## Ultra Rapid Latex Levelling and Smoothing Compound

### DESCRIPTION

ARDITEX NA is a self-smoothing, protein free, latex levelling compound with improved flow and excellent adhesion, flexibility and moisture resistance. These unique properties ensure that ARDITEX NA can be used with confidence over almost all subfloors without priming, including ceramic tiles, bitumen residue and flooring grade plywood. Resilient floorcoverings can be installed after just 4 hours and ceramic tiles in as little as 3 hours.

Engineered with high water resistance ARDITEX NA can be installed under flexible waterproof membranes. With enhanced flexibility ARDITEX NA is particularly suitable for installation over timber floors.

### USE

To level uneven internal subfloors to provide a smooth surface. ARDITEX NA can be applied on all common subfloors such as concrete and cement/sand screeds, prepared terrazzo, flooring grade asphalt, quarry tiles, internal steel floors, ARDEX moisture barrier membranes, porcelain tiles, flooring grade plywood etc. It is ideal for use where low odour products are required. ARDITEX NA can also be used to encapsulate under-tile heating cables/mats onto concrete/screed/tile backing boards, prior to fixing ceramic floor tiles. ARDITEX NA can be laid from a feather edge up to at least 12mm in a single application or up to 30mm incorporating aggregate.

NOTE: ARDITEX NA should not be used on top of rubber, linoleum, cork or moisture sensitive floorcoverings.

### SUBSTRATE PREPARATION

The surface of the subfloor must be sound and free from dust, plaster droppings, grease, paint, polish and any water-softenable or loosely adhered materials. Any remaining adhesive residues should be checked to ensure that they are not water-softenable and that they are hard, sound and have sufficient cohesive strength to receive a levelling compound.

On absorbent surfaces, it may be necessary to damp down the surface with water before applying the mixed ARDITEX NA, ensuring there is no standing water, to help reduce suction and pinholes.

Where moisture sensitive floorcoverings are to be installed, the floor must be dry with less than 75% Relative Humidity (RH) and protected by an effective structural damp proof membrane prior to installing the final floorcovering.

ARDITEX NA may be used in applications over sound, well bonded and moisture insoluble adhesive residue. As a guideline, residue should not exceed 33% per square metre, no individual agglomeration of residue to

exceed 50x50mm in area and shall be less than 1mm in thickness. Remove all poorly bonded residue and always subsequently thoroughly vacuum. Always confirm installation on site by conducting a representative trial area. Apply ARDITEX NA in these cases at least 3mm thick and no greater than 6mm in thickness.

Prior to levelling wooden floors, screw down and firmly fix all loose boards. Where timber floors are sufficiently rigid but are uneven or worn, or where there is differential movement between floor boards, the technique is to pre-level the timber with ARDITEX NA and allow to dry prior to screw fixing minimum 6mm thick flooring grade plywood to receive resilient flooring, or the appropriate thickness tile backing board to receive ceramic tiles or natural stone, to provide a sound and stable base for the new flooring. In all cases, subfloor ventilation must be adequate to prevent deterioration and moisture movement.

Alternatively, for flooring grade plywood which is free from barriers to adhesion, conditioned to the ambient moisture content and rigidly fixed, ARDITEX NA may be applied as a smoothing layer up to a maximum thickness of 6mm. Allow to thoroughly dry prior to fitting the final floorcovering with a suitable adhesive. Where a very thin skim of smoothing compound is required, consult the ARDEX Feather Finish datasheet.

When smoothing terrazzo flooring the surface is normally degreased. If following the cleaning operation the surface still does not wet out, contact ARDEX technical services for further information. Only suitable for sound, cement-based terrazzo.

ARDITEX NA may be applied directly as a nominal 2mm smoothing layer onto clean, well adhered and sound, homogeneous, thermoplastic and vinyl flooring which is a minimum of 2mm thick, in light duty applications such as domestic locations as a base for a further application of resilient flooring. This is providing that the surface of the existing tiles has been suitably prepared. For example, by scrubbing/degreasing and stripped of any wax, grease, dirt, or other barriers to adhesion, prior to the application of the ARDITEX NA.

The existing installation must be dry and protected by a functioning moisture barrier. A minimum of 1.5mm of ARDITEX NA must be applied to act as an absorbent layer for the subsequent vinyl adhesive. Do not exceed 3mm thickness of ARDITEX NA in this application.

NOTE: Some older vinyl tiles and mastics may contain asbestos.

NOTE: Soft floorings such as cushion vinyl are not suitable to receive ARDITEX NA and must be removed.

NOTE: Whilst we can guarantee the bond of ARDITEX

NA to the vinyl tile we do not know how well the tile is adhered to the substrate, so careful checking to ensure the bond of the tile to the substrate is essential, with any loose tiles being removed and the gap infilled with ARDITEX NA.

### MIXING RATIO

ARDEX floor levelling products react and harden quickly when mixed with gauging liquid. Thorough mixing in the shortest possible time is essential to ensure a lump free mortar. Always mix the powder into the liquid. The most efficient method of mixing is by using the ARDEX mixing paddle and a heavy duty electric drill (650 rpm). Normal mixing time of a 20kg bag is 2 to 3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing.

### APPLICATION

The mixed material is poured onto the prepared floor surface and spread with a trowel to the required thickness in one operation. Apply at floor temperatures above 5°C. The use of a spiked roller will improve the surface and performance of the applied mortar whilst still wet.

### PUMPING

For ease and efficiency of application ARDITEX NA can be pumped using a suitable Automatic Mixing Pump. Follow the instructions as set by the pump manufacturer

### THICKNESS

ARDITEX NA can be applied from featheredge to 12mm in one application. For thicknesses from 12-30mm ARDITEX NA should be mixed with ARDEX 2-5mm aggregate. Mix ARDITEX NA powder into ARDITEX NA latex liquid (4.8L) first then add the aggregate (up to an equal weight of powder) whilst mixing. Mixes with high aggregate content may require a finishing layer of ARDITEX NA. If a finishing layer is applied, the base layer should be primed to prevent pinholes and to improve the flow of the finishing layer.

### CLEANING OF EQUIPMENT

All tools and mixing containers should be washed and cleaned in water immediately after use before the material sets.

### DRYING AND HARDENING

At normal temperatures the working time is approximately 20 minutes. ARDITEX NA can be walked on approximately 2 hours after application, depending on thickness and site conditions. A 3mm layer of ARDITEX NA is typically suitable to receive ceramic tiles in as little as 3 hours and most other floorcoverings after 4 hours under good conditions. The setting, hardening and drying times will be extended at lower temperatures and shortened at higher temperatures. Thicker applications

will require a longer time to dry, however even at thicknesses up to 10mm, floorcoverings can be installed after 24 hours.

### COVERAGE

Approximately 1.8kg/mm/m<sup>2</sup>. A 20kg bag will cover approximately 13m<sup>2</sup> at 1mm thickness.

### PACKAGING

ARDITEX NA powder is packed in paper sacks incorporating a polyethylene liner - net weight 20kg. ARDITEX NA latex is in black polyethylene containers - net weight 4.85kg.

### STORAGE AND SHELF LIFE

ARDITEX NA powder has a storage life of not less than 12 months if stored in dry conditions. ARDITEX NA latex has a storage life of 9 months in a sealed container if stored in frost-free conditions, out of direct sunlight.

### TECHNICAL DATA

Characteristic	Result
Bulk density of powder	1.2kg/L
Mixed mortar density	1.8kg/L
Compressive Strength	
After 1 day	5 MPa
After 3 days	6 MPa
After 7 days	10 MPa
After 28 days	13 MPa
Tensile Bending Strength	
After 1 day	2 MPa
After 3 days	3.5 MPa
After 7 days	4.5 MPa
After 28 days	6 MPa

### HEALTH AND SAFETY

ARDITEX NA contains Portland cement and Quartz sand. Avoid generation of dust. Do not inhale dust. Avoid contact with eyes or skin. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse affected areas thoroughly with running water. If dust is inhaled, remove to fresh air, ensure breathing passages are clear and rinse mouth with running water. If symptoms persist, seek medical advice.

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**Toll Free Technical Services:  
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