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# ARDITEX NA

## Self Levelling and Smoothing Compound

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Low odour – User friendly

Superior flow – Self smoothing

Rapid hardening – Install many floor coverings from 4 hours

Versatile – Timber and damp concrete substrates

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# ARDITEX NA

## Self Levelling and Smoothing Compound

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### DESCRIPTION

ARDITEX NA Self Levelling and Smoothing Compound is a two part latex liquid and cementitious powder with excellent adhesion properties.

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.

### SUBSTRATES

ARDITEX NA can be installed over a number of internal substrates including concrete, proprietary structural screeds, flooring grade asphalt, compressed FC, timber, quarry tiles and steel decks. ARDITEX NA is not recommended for high loadings and heavy traffic areas.

For levelling and smoothing of external surfaces, contact ARDEX Technical Services for more information.

### SURFACE PREPARATION

Sub-floors must be solid, clean and free of dust, plaster droppings, grease, paint, polish and loosely adhered or water-softenable material. Prior to levelling wooden floors, re-nail and firmly fix all loose boards.

Where timber floors are sufficiently rigid but are uneven, worn or where there is differential movement between floor boards, the technique is to pre-level timber with ARDITEX NA prior to screw or ring nail fixing 6mm-12mm thick plywood or fibre cement sheets to provide a sound and stable base for the new flooring. In all cases, subfloor ventilation must be adequate to prevent the build-up of dampness.

### PRIMING

On concrete substrates priming is recommended where it is necessary to eliminate 'pin holing' and on very absorbent concrete.

In permanently dry applications use ARDEX P 51 over very absorbent concrete surfaces to reduce porosity and pinholes. ARDEX P 51 is applied evenly using a push broom. Do not use paint rollers, mops, or spray equipment. Do not leave any bare spots. Brush off all puddles of excess primer. The first coat is mixed 1 part ARDEX P 51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P 51 diluted with 1 part water. Allow to dry to a thin, clear film (min. 3 hours, max. 24 hours).

When applying onto very absorbent moisture vulnerable concrete substrates apply one coat of ARDEX WPM 300 at a rate of 2.0m<sup>2</sup>/L and while WPM 300 is still wet, clean dry sand (~0.3-0.5mm) is spread over the surface.

The coverage rate to be 700gms/m<sup>2</sup> and at least 90% coverage must be achieved. After a minimum of 12-16 hours broom and vacuum the excess sand off the surface.

Use ARDEX P 82 ULTRA PRIME for timber floors. Mix part A (red) with part B (white) and apply with a short-nap or sponge paint roller, leaving a thin transparent pink coat of primer no heavier than a coat of paint. Do not leave any bare spots. Roll off any areas of excess primer. Allow to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours). ARDEX P 82 must be applied in a thin layer within 1 hour of mixing. Do not install levelling compounds until primers have dried thoroughly.

Note: For high strength, burnished or polished concrete, contact ARDEX Technical Services. Low subfloor temperatures and/or high ambient humidity require longer drying time for ARDEX primers. Do not install levelling compounds until primers have dried thoroughly.

### MIXING RATIO

To 4.8 litres of ARDITEX NA Latex liquid, add the ARDITEX NA powder (20kg) whilst mixing thoroughly for 2 minutes with heavy duty electric drill (650 rpm) to ensure a lump free mortar.

### MIXING

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.

### MANUAL INSTALLATION

Pour the mixed ARDITEX NA onto the prepared subfloor. Wear football boots with rubber or nylon studs to avoid leaving unnecessary marks in the liquid ARDITEX NA. Spread into place using the ARDEX gauging rake with height adjustment to obtain an even thickness. Use ARDEX stand-up spreader for smoothing and where necessary the ARDEX hand trowel. Do not rework ARDITEX NA after 10 minutes.

## INSTALLATION OVER ADHESIVE RESIDUE

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. After priming apply ARDITEX NA in these cases at least 3mm thick and no greater than 6mm in thickness.

**CAUTION:** Installation best practice is to grind all floors clean of adhesive and other residue. Installing over adhesive residue or other contaminants will increase the risk of application failure to the contractor. ARDEX Australia P/L accepts no liability where ARDITEX NA is installed over excessive, water soluble or poorly adhered residue.

## PUMPING INSTALLATION

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.

## COVERAGE

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

## DRYING-HARDENING TIME

Allow approximately 2 hours at 23°C before foot traffic.

- Ready for tiles and breathable synthetic textile coverings in approximately 4-5 hours
- Ready for Rubber, PVC Vinyl, Linoleum and wool textile floor coverings in approximately 24 hours when installed less than 12mm in thickness

Always comply with floor covering manufacturer's moisture instructions. Higher temperatures will reduce the setting, hardening and drying time, whilst lower temperatures will extend drying time.

## TECHNICAL DATA

Bulk density of powder:	approx 1.2kg/L
Mixed mortar density:	approx 1.8kg/L
Packaging:	20kg Bag 4.8L Latex Liquid

### Compressive Strength

After 1 day	approx 5 MPa
After 3 days	approx 6 Mpa
After 7 days	approx 10 Mpa
After 28 days	approx 13 MPa

### Tensile Bending Strength

After 1 day	approx 2.0 MPa
After 3 days	approx 3.5 Mpa
After 7 days	approx 4.5 Mpa
After 28 days	approx 6.0 MPa

## STORAGE

ARDITEX NA powder and liquid have a shelf life of 12 months if stored in dry conditions in unopened packaging.

## 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.

## GUARANTEE

ARDEX products are generally warranted for 10 years when installed to relevant Australian Standards and applicable ARDEX specification, technical data sheet and instruction for application and use. While we assure customers the high standard and quality of our products and services, we accept no liability for any loss or damage which arises from particular site conditions, poor handling and storage or installation by unqualified and unskilled applicators.

## DISCLAIMER

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 Australian Standard, 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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