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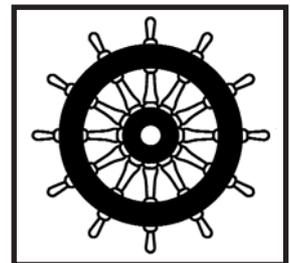
SEPTEMBER 2013  
(SUPERSEDES JUNE 2011)  
PRODUCT DATA SHEET

# ARDITEX NA

## Ultra Rapid Hardening Latex Sub-Floor Levelling and Smoothing Compound - No Ammonia

### Features

- Apply floorcoverings after 4 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 Damp Proof Membranes and even ceramic tiling
- Unaffected by moisture, can be used under an ARDEX Damp Proof Membrane and direct to damp concrete
- 5m<sup>2</sup> coverage at approximately 3mm
- Feather edge to 12mm in one application
- Apply to 30mm incorporating ARDEX Coarse Aggregate
- Suitable for underfloor heating



MED Modules B and D approved  
for use as a Primary deck covering  
on steel decks of ships



Reg No. FM 1207



EMS 565427

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# ARDITEX NA

## Ultra Rapid Hardening Latex Sub-Floor Levelling and Smoothing Compound - No Ammonia

### DESCRIPTION

ARDITEX NA is a self-smoothing, protein free latex levelling compound with improved flow and excellent adhesion, flexibility and water resistance. These unique properties ensure that ARDITEX NA can be used with confidence over most old adhesive residues and is suitable to receive most floorcoverings after only 4 hours.

### USE

To level uneven internal sub-floors to provide a smooth surface. Ideal for use in areas where low odour products are required. ARDITEX NA can be applied on all common sub-floors such as concrete and cement/sand screeds, flooring grade asphalt, quarry tiles, internal steel floors, ARDEX Damp Proof Membranes, porcelain tiles, flooring grade plywood etc. 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 ARDEX Coarse Aggregate.

### PREPARATION

The surface of the sub-floor must be clean, 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 a sufficient cohesive strength to receive a screeding compound. Where moisture sensitive floorings are to be installed e.g. resilient flooring, the floor must be dry, with less than 75% Relative Humidity when tested in accordance with BS 8203, and protected by a functioning damp proof membrane prior to smoothing.

On absorbent surfaces it may be necessary to damp down or prime the surface using the ARDITEX NA latex diluted 1 part to 4 parts water with a broom and allow to dry to help reduce suction and pinholes, before applying the ARDITEX NA mortar. Some solvent-based adhesive residues such as gum resin/spirit/ alcohol types may require priming as above.

Where rising damp is present in concrete or cement and sand screeds, it is recommended that a suitable surface damp proof membrane, such as ARDEX DPM 1 C is applied on top of the hardened ARDITEX NA or ARDEX DPM. The adhesion and hardening of ARDITEX NA is unaffected by the presence of dampness in the sub-floor providing the floor is free of surface water. ARDITEX NA can also be used prior to applying ARDEX RAPIDLAY MEMBRANE.

If sub-floors are impervious, e.g. flooring grade asphalt, or have adhesive residues that will be affected by subsequently applied adhesives, an overall application of ARDITEX NA at least 3mm thick and no greater than 6mm thick will be required. This is to ensure uniform drying of the new adhesive and to prevent interaction either with the old adhesive residues or with the asphalt sub-floor.

When smoothing over pitch adhesive residues, where woodblocks have been removed, the residues must be checked to ensure that they are sufficiently hard and well adhered, in order to support the required thickness of ARDITEX NA. ARDITEX NA can then be applied from 3 to 12mm neat or from 8 to 30mm with the inclusion of up to an equal volume of ARDEX Coarse Aggregate.

**NOTE:** Where the pitch may have functioned as the damp proofing of the floor, consideration should be given to complete removal and the installation of an ARDEX Damp Proof Membrane.

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 WBP 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 sub-floor 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 water-based adhesive. For smoothing tongue and groove floorboards, and for timber floors in conservatories, or areas other than domestic locations, either overlay with plywood as above, or consult the ARDEX FA 20 datasheet. Where a very thin skim of smoothing compound is required, consult the ARDEX FEATHER FINISH datasheet.

### GYPSUM (Anhydrite Screeds)

Ensure that the screed has been applied, mechanically prepared and tested for moisture in accordance with the manufacturer's recommendations. For guidance, the screed must contain less than 0.5% moisture content or 75% Relative Humidity. Gypsum based

screeds can adversely react with cement containing materials such as levelling compounds, ceramic tile adhesives etc. The surface of the gypsum screed must be prepared to remove any weak layers or friable surface residues and an appropriate primer used to prevent the cement containing materials coming into direct contact with the gypsum screed. Therefore surface preparation using the appropriate mechanised equipment and priming is required for the successful application of any cement based material to calcium sulphate based screed. Any laitance, surface fines, etc, must be removed back to hard, dry, sound material prior to priming with ARDEX P 51 diluted 1:3 with water or, dependent of the information from the gypsum screed manufacturer, a suitably sand blinded coat of an epoxy primer such as ARDEX R 3 E may be required.

### MIXING

The mix ratio is one 20kg bag of ARDITEX NA powder to 4.85kg of ARDITEX NA latex. The latex should be shaken and poured into a clean mixing container. The powder is then added gradually with continuous stirring. The use of an ARDEX mixing paddle with a 10mm chuck electric drill makes this light work. For smaller quantities, 3 volumes of powder should be stirred into 1 volume of latex.

### 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 temperatures above 5°C. The use of a spiked roller will improve the surface and performance of the applied mortar whilst still wet.

### PUMPING

ARDITEX NA is pumpable using the appropriate pumping equipment. For more information consult the ARDEX Technical Services department.

### THICKNESS

The standard mix is suitable for applications from a feather edge up to 12mm, however for thicknesses above 8mm the incorporation of up to an equal volume of ARDEX Coarse Aggregate will prove economic. Mixes with a high aggregate content may require a subsequent smoothing application of the standard mix of ARDITEX NA and, if this is carried out when the aggregate filled mix has dried, priming will help prevent air bubbles, suction and also prolong the flow life.

**NOTE:** Flooring grade asphalt and damp proof membranes should not be covered with more than 6mm of underlayment. For other substrates, please contact the ARDEX Technical Services Department for advice.

# ARDITEX NA

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### 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:  
Working time approximately 20 minutes.  
Walkability approximately 2 hours depending on thickness and site conditions. A 3mm layer of ARDITEX NA is suitable to receive most floorcoverings typically after 4 hours under good conditions. The setting and drying characteristics have been selected to suit most conditions and types of surfaces to be smoothed, enabling ARDITEX NA to be used for almost every conceivable application. The setting, hardening and drying times will be extended at low temperatures and shortened at high temperatures. Thicker applications will require a longer time to dry.

### COVERAGE

Coverage is dependent upon application thickness and texture of the substrate. A rough textured surface or slightly thicker application will decrease coverage whereas a smooth substrate or slightly thinner application will improve coverage, because of this actual coverage achieved on site can vary considerably from the theoretical coverage. For example 5m<sup>2</sup> will be achieved per unit at approximately 3mm thick on a smooth surface. For other application thicknesses see the technical data section.

**NOTE:** The excellent flow and wet edge time of ARDITEX NA means that in practice thinner applications are possible which can dramatically improve coverage.

### 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.

### PRECAUTIONS

Wash off any mortar or latex on the skin before it dries. ARDITEX NA is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar which may cause some local irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

For further information consult the relevant health and safety data sheet.

### 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 6 months in a sealed container if stored in frost-free conditions, out of direct sunlight.

### TECHNICAL DATA

Bulk density of powder	approx. 1.3kg/litre
Initial Set (Vicat)	approx. 1 hour
Final Set (Vicat)	approx. 1 1/2 hours
<b>Compressive Strength</b>	
After 28 days	approx. 16.5 N/mm <sup>2</sup>
<b>Flexural Strength</b>	
After 28 days	approx. 5.5 N/mm <sup>2</sup>
<b>Approximate application thickness</b>	<b>Approximate Coverage</b>
2mm	7m <sup>2</sup>
3mm	5m <sup>2</sup>
5mm	3m <sup>2</sup>
8mm*	
with ARDEX Aggregate	3m <sup>2</sup>
10mm*	
with ARDEX Aggregate	2.3m <sup>2</sup>

\*For application thicknesses 8mm and above ARDEX Coarse aggregate will improve coverage, see mixing instructions.

ARDITEX NA – Cementitious screed material for use internally in buildings  
EN 13813: CT-C16-F5.

**NOTE:** The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to up date this information at any time without prior notice. We also 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.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

**TECHNICAL ADVICE HELPLINE**  
**01440 714939**

**ARDEX online**  
**[www.ardex.co.uk](http://www.ardex.co.uk)**