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PRODUCT DATA SHEET

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# ARDITEX

## Latex-Based Universal Sub-Floor Smoothing Compound

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### Features

Excellent adhesion to almost all substrates

Unaffected by moisture, can be used under a damp proof membrane

Simply mixed, pre-gauged 2-part pack

Excellent flow characteristics

Feather edge to 12mm in one application

Apply to 30mm incorporating a suitable aggregate



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# ARDITEX

## Latex-Based Universal Sub-Floor Smoothing Compound

### DESCRIPTION

ARDITEX is a partially self-smoothing latex smoothing compound with excellent properties of adhesion, flexibility and water resistance. Due to its special formulation, ARDITEX can be used under a damp proof membrane.

It is exceptionally easy to mix and produces very low drag on the trowel. In addition to these advantages, ARDITEX can be laid from a feather edge up to at least 12mm in a single application.

### USE

To level uneven internal sub-floors to provide a smooth surface prior to the application of floorcoverings. ARDITEX can be applied on all common sub-floors such as concrete and cement/sand screeds, flooring grade asphalt, wood (see Preparation below), quarry tiles, internal steel decks, etc.

### 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. On absorbent surfaces it may be necessary to damp down, or prime the surface using the ARDITEX latex liquid diluted 1 part to 4 parts water and allow to dry before applying the ARDITEX mortar. Where rising damp is present it is recommended that an ARDEX surface damp proof membrane is incorporated into the sub-floor construction, consult the ARDEX DPM data sheet for detailed advice. The adhesion and hardening of ARDITEX is unaffected by the presence of dampness in the sub-floor providing the floor is free of surface water.

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 at least 3mm thick will be required. This is to ensure uniform drying of the new adhesive or to prevent interaction either with the old adhesive residues or with the asphalt sub-floor.

Prior to levelling wooden floors, re-nail 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 prior to screw or ring nail fixing 6mm to 12mm thick plywood sheets 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.

### MIXING

Mix one 22kg bag of ARDITEX powder into 4.8kg of ARDITEX 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 one 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. ARDITEX is partially self-smoothing, but should any trowel marks persist the surface may be easily smoothed with a wet trowel once the material is "finger-tight", i.e. not fully hardened. This can usually be done after approximately 40 minutes at normal temperatures. Alternatively the trowel marks may be "stoned" down with a carborundum block once the material has hardened.

### 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 3mm single sized aggregate will prove economic. For thicknesses exceeding 12mm and up to 30mm an equal volume of a suitable size of graded aggregate should be incorporated in the standard mix. Mixes with a high aggregate content may require a subsequent smoothing application of the standard mix of ARDITEX 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 should not be covered with more than 6mm of underlayment.

### 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 30 minutes. Walkability approximately 2 hours depending on thickness and site conditions. A 3mm ARDITEX screed is suitable to receive most floorcoverings after 4 hours. The setting and drying characteristics have been selected to suit most conditions and types of surfaces to be screeded, enabling ARDITEX 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

Approximately 1.9kg mortar/m<sup>2</sup>/mm, e.g. one unit will cover approximately 5m<sup>2</sup> at 3mm thickness.

### PACKAGING

ARDITEX powder is packed in paper sacks incorporating a polyethylene liner - net weight 22kg.

ARDITEX latex is in black polyethylene containers - net weight 4.8kg.

### STORAGE AND SHELF LIFE

ARDITEX powder contains a reducing agent to control the level of Chromium VI when mixed prior to use.

ARDITEX powder must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, as detailed above, and used within 12 months of the date shown on the packaging, the activity of the reducing agent (added to control the level of soluble Chromium VI) will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2ppm)

soluble Chromium VI of the total dry weight of the cement content of this product. Use of the product after the end of the declared storage period may increase the risk of allergic reaction. ARDITEX latex has a storage life of not less than 6 months in a sealed container if stored in frost-free conditions, out of direct sunlight.

### PRECAUTIONS

Wash off any mortar or latex on the skin before it dries. During mixing and application ensure adequate ventilation since the latex component contains ammonia which is volatile and may cause eye watering in confined spaces. Avoid generation of airborne dust during mixing.

ARDITEX powder contains more than 20% portland cement and, therefore, in line with current legislation, is classified as irritating to eyes and skin. For this reason the following precautions should be observed:-

Avoid contact with the skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children.

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

### TECHNICAL DATA

Bulk density of powder approx.	1.5kg/litre
Weight of fresh mortar approx.	1.9kg/litre
Initial Set (Vicat)	
DIN 1164	approx. 1/2 hour
Final Set (Vicat)	
DIN 1164	approx. 1 1/2 hours

Compressive Strength (DIN 1164)	
After 28 days	18.3 N/mm <sup>2</sup>

Tensile Bending Strength (DIN 1164)	
After 28 days	5.9 N/mm <sup>2</sup>

Ball Pressure Hardness (Brinell)	
After 1 day	11.3 N/mm <sup>2</sup>
After 3 days	20.4 N/mm <sup>2</sup>
After 7 days	36.3 N/mm <sup>2</sup>

ARDITEX latex underlayment has been tested and approved by Lloyd's Register of Shipping as complying with Marine Equipment Directive requirements for use on Merchant Ships registered in the European Economic Area. ARDITEX is accepted as complying with the applicable Lloyd's Register Rules and Regulations and with the International Convention for Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

**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 update 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.