



CI/SfB

(43) Pr3

AUGUST 2007  
PRODUCT DATA SHEET

# ARDITEX RS PLUS

## Rapid Setting, Ammonia Free, Low Odour Latex Sub-Floor Levelling and Smoothing Compound

### Features

Apply floorcoverings after 6 hours at 3mm thickness at 20°C

Rapid setting – a 3mm application will take foot traffic typically after 2 hours

Cost effective low odour solution for smoothing concrete, cement/sand screeds, ceramic tiles, etc.

Excellent flow and application properties

Unaffected by moisture, can be used under a damp proof membrane such as ARDEX DPM, ARDEX DPM 1 C or ARDEX DPM 1 C R

Simply mixed, pre-gauged 2-part pack

Feather edge to 6mm in one application

Apply from 6mm to 12mm incorporating ARDEX Aggregate

Ideal for use with ARDEX floorcovering adhesives



Reg No. FM 1207

ARDEX UK LIMITED  
Homefield Road, Haverhill, Suffolk CB9 8QP UK.  
Telephone: +44 (0)1440 714939  
Fax: +44 (0)1440 716660  
Technical Services Fax: +44 (0)1440 716667  
Email: [technical.services@ardex.co.uk](mailto:technical.services@ardex.co.uk)  
ARDEX online: [www.ardex.co.uk](http://www.ardex.co.uk)

# ARDITEX RS PLUS

## Rapid Setting, Ammonia Free, Low Odour Latex Sub-Floor Levelling and Smoothing Compound

### DESCRIPTION

ARDITEX RS PLUS is a cost effective, self-smoothing latex levelling compound with excellent properties of adhesion and water resistance. It is designed for use on sub-floors such as concrete, cement and sand screeds, terrazzo and quarry tiles etc. ARDITEX RS PLUS may also be applied to dense impervious surfaces such as ceramic tiles and steel sub floors that have been primed with ARDEX P 82 Primer. ARDITEX RS PLUS can be laid from a feather edge up to 6mm thick and to greater thicknesses by incorporating ARDEX Aggregate. The rapid setting properties of ARDITEX RS PLUS mean a 3mm layer will be ready to receive floorcoverings after only 6 hours at 20°C. Due to its special formulation, ARDITEX RS PLUS can be used under a damp proof membrane, such as ARDEX DPM, ARDEX DPM 1 C or ARDEX DPM 1 C R.

### USE

For smoothing internal sub-floors prior to the application of floorcoverings.

### PREPARATION

The surface of the sub-floor must be clean, sound and free of dust, dirt, grease, excess adhesive residues, oil etc., or loosely adhered materials e.g. plaster or paint residues.

On highly porous or absorbent sub-floors, damp down the surface with water without leaving puddles. An alternative is to prime the surface with ARDITEX RS PLUS latex diluted 1 part to 4 parts water with a broom and allow to dry which will help to reduce suction and pinholes, prior to applying the ARDITEX RS PLUS mortar. If sub-floors are impervious e.g. ceramic tiles, the floor must be primed with ARDEX P 82 Water Dispersed Epoxy Primer. Where traces of adhesive residues remain after surface preparation they must be hard, sound and non-water softenable.

If sub-floors are impervious or with traces of adhesive residues that will be affected by subsequently applied flooring adhesives, an overall application of ARDITEX RS PLUS 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 with the old adhesive residues, etc. For information on ARDEX floorcovering adhesives consult the SYSTEMARDEX commercial flooring brochure.

**NOTE:** Do not use ARDITEX RS PLUS for asphalt sub-floors: consult the ARDITEX or ARDITEX NA product data sheets.

When applying ARDITEX RS PLUS on top of ARDEX DPM or ARDEX DPM 1 C, it must be applied within 24 hours of the final cured coat, within 16 hours if applied onto ARDEX DPM 1 C R. If this timescale is extended the ARDEX DPM system will need to be primed with ARDEX P82 Primer.

**NOTE:** ARDITEX RS PLUS can be used with underfloor or undertile (heating mats) heating on cementitious substrates.

### MIXING

Mixing ratio is one 20kg bag of ARDITEX RS PLUS powder with 4.8kg of ARDITEX RS PLUS latex as supplied. The emulsion should be shaken, poured into a clean mixing container and the powder added gradually with continuous stirring.

The use of an ARDEX mixing paddle with a 10mm chuck slow speed electric drill makes light work of mixing. The mixed mortar has a working time of approximately 30 minutes at 20°C.

### APPLICATION

The mixed material is poured on to the prepared sub-floor and spread with a trowel to the required thickness in one operation. ARDITEX RS PLUS has excellent self-smoothing properties, but should any trowel marks remain, these can be lightly rubbed down with a carborundum stone once the ARDITEX RS PLUS is hard enough to walk on. Apply at temperatures above 5°C. Alternatively a spiked roller may be used immediately after trowelling to further improve the surface finish.

### THICKNESS

ARDITEX RS PLUS is suitable for thicknesses from a feather edge up to 6mm. For thicknesses from 6mm to 12mm incorporate up to a third volume of ARDEX Aggregate.

### DRYING AND HARDENING

At normal temperatures a 3mm layer of ARDITEX RS PLUS is walkable after approximately 2 hours and is ready to receive most floorcoverings typically after only 6 hours under good conditions. 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.

### CLEANING OF EQUIPMENT

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

### COVERAGE

Approximately 1.7kg mortar/m<sup>2</sup>/mm, e.g. one unit will cover approximately 5m<sup>2</sup> at 3mm thickness.

### PACKAGING

ARDITEX RS PLUS powder is packed in paper sacks incorporating a polyethylene liner - net weight 20kg.

ARDITEX RS PLUS latex is in white polyethylene containers - net weight 4.8kg.

### STORAGE AND SHELF LIFE

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

ARDITEX RS PLUS 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.

ARDITEX RS PLUS must not be used after the end of the declared storage period. ARDITEX RS PLUS 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. Avoid generation of airborne dust during mixing. ARDITEX RS PLUS 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 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 safety data sheet.

### TECHNICAL DATA

Bulk density of powder approximately 1.5kg/litre

Weight of fresh mortar approximately 1.7kg/litre

Initial Set (Vicat) approximately 1/2 hour

Final Set (Vicat) approximately 1 hour

Compressive Strength After 28 days 13.0 N/mm<sup>2</sup>

Tensile Bending Strength After 28 days 4.0 N/mm<sup>2</sup>

Suitable for underfloor heating: Yes

**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.

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