Surface Preparation
Damp Proof Membranes
Primer
Smoothing Compounds
Repair Mortars
Flooring Adhesives

www.ardex.co.uk
ARDEX manufacture a complete range of premium quality flooring products for the professional flooring contractor.

This guide contains information on the essential products you will need on a day to day basis.

For information on our full range of products, including screeds, tiling adhesives and grouts, visit www.ardex.co.uk

Each product is the result of research and development with the help of contractors and specifiers, to ensure product compatibility and market leading performance. ARDEX products are designed to work together for total peace of mind.

We call this SYSTEMARDEX – A system of high quality, compatible products matched to unparalleled technical and field support.

Manufactured in the UK, product development at ARDEX is based upon the needs of local contractors, distributors and specifiers. We make every effort to maintain close contact with floorcovering manufacturers to ensure that our products continue to meet the demands of the professional flooring contractor.
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GUIDE TO SYMBOLS

SIZE
COVERAGE
MIX WATER RATIO
OPEN TIME
APPLY FLOORCOVERINGS AFTER
USE WITH UNDERFLOOR HEATING
LOW ODOOUR
HIGH HEAT RESISTANCE
WEATHER/MOISTURE RESISTANT
APPROVED FOR MARINE USE
TIME UNTIL WALKABLE
STORAGE LIFE

Always refer to the relevant ARDEX product datasheet for product information and application advice.
6 STEPS TO THE PERFECT FLOOR

1. **Evaluate the Existing Floor**
   When first looking at the existing floor there are three main factors that must be considered:
   - **Physical Condition**
     Even if a sub-floor has been in place for decades, there is no guarantee that it is fit for use. Check for any damage or movement that may need repairing before you start.
   - **Moisture**
     A basic moisture test can determine the Relative Humidity of the background and what preparation is required to protect the floorcovering. BS 8203 requires 75% RH or less before laying moisture sensitive floorcoverings. In cases where RH is over 75%, an ARDEX Damp Proof Membrane should be applied to protect the floorcovering installation from residual construction moisture and ground water vapour.
   - **Contamination**
     New or existing sub-floors may be contaminated or have barriers to adhesion. The surface must be hard, sound and free of dust, dirt and other barrier materials such as grease, paint, excess adhesive residues or loosely adhered materials. Where traces of adhesive residue remain, these must be sound, well adhered and non-water softenable.

2. **Preparation and Priming**
   All floors require some degree of preparation before receiving bonded material. Prime concrete, cement/sand screeds and gypsum sub-floors with an ARDEX primer to maintain the flow life and prevent air bubbles rising through the applied levelling and smoothing compound.
   The longer the time left between preparation and application, the more likely the floor will need to be prepared again.

3. **Select the Correct ARDEX Levelling and Smoothing Compound**
   The type of levelling and smoothing compound required depends on the project. The final use of the floor should be considered, such as loads in service, use in domestic or commercial locations, abrasion resistance and cleaning regime.
4. **Select the Correct Flooring Adhesive**
   The ARDEX range of flooring adhesives are suitable for use on all common flooring substrates, and include products designed specifically for PVC sheet & tiles, carpet and wood floorcoverings.

5. **Application**
   The mixed smoothing and levelling compound is poured onto the prepared floor surface and spread with a trowel to the required thickness in one operation, should any trowel marks remain, the surface may be easily smoothed with a spiked roller.

   The correct notch size is required for both the flooring adhesive and the floorcovering to ensure the bond is maximised and the correct amount of adhesive is used. Lay the floorcovering within the open time of the adhesive and use an appropriate roller glider to ensure contact between the floorcovering and the adhesive.

6. **Protect your Work**
   It is vital to protect the surface from traffic, contamination or damage if there is likely to be a delay between installing the smoothing compound and subsequent work such as fixing the floorcovering.

   Store all materials in accordance to ARDEX UK’s guidelines, as found on the packaging, and ensure all products are within their shelf life. Always refer to the relevant product datasheet for product information and application advice.

For further advice please call the ARDEX Technical Service Department on 01440 714939 or email technical.services@ardex.co.uk
Flooring Tools Available from ARDEX

**Spiked Roller**
Spiked roller for use after applying smoothing compounds to remove trapped air and ensure a smooth finish

**16 x 4.5” Smoothing Trowel**
16 x 4.5” Smoothing trowel for spreading and trowelling out smoothing compounds

**ARDEX 10 litre Measuring Bucket**
Clear walled measuring bucket with measuring scale for use with ARDEX water-based flooring products

**ARDEX 32 litre Mixing Bucket**
For use when mixing ARDEX smoothing and levelling compounds
**ARDEX Mixing Paddle**
Ensures speedy and thorough mixing of powder/water or latex products when used with a heavy duty, slow speed electric drill

**Self Adhesive Foam Tape**
Black PVC foam tape approx 10mm (7m roll). Suitable for forming bays on large floor areas; sectioning off the work area prior to the application of smoothing and levelling compounds
The installation of a damp proof membrane is a vital stage in the building process. Apply an ARDEX DPM to protect the floorcovering installation from residual construction moisture and ground water vapour.

ARDEX DPM 1 C
ONE COAT SURFACE DAMP PROOF MEMBRANE AND RESIDUAL MOISTURE SUPPRESSANT

DESCRIPTION
A one coat solvent free, low viscosity, two-component flexibilised epoxy resin with high inherent bond strength.

- Guarantees the early laying of all floorcoverings
- Walkable in 6 hours
- Accommodates Hygrometer readings up to 98% RH in one coat
- Adheres well to wet concrete even at 10°C
- Suitable for cement/sand screeds containing underfloor heating systems*

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th>%RH</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>85</td>
<td>250 microns per coat</td>
</tr>
<tr>
<td>98</td>
<td>350 microns per coat</td>
</tr>
</tbody>
</table>

* Refer to product datasheet

ARDITEX NA Ultra Rapid Setting Latex Sub-Floor Levelling and Smoothing Compound
Can be applied directly to any ARDEX Damp Proof Membrane up to 6mm, without priming!
ARDEX Damp Proof Membranes have been specifically developed to provide either a DPM, or to suppress residual moisture in concrete slabs and cement/sand screeds which are well compacted and sound, where readings of up to 98% RH are measured.

ARDEX Damp Proof Membranes have excellent resistance to water, grease, oil, aqueous salt solutions and dilute mineral and organic acids.

ARDEX DPM 1 C R
RAPID CURING ONE COAT DAMP PROOF MEMBRANE AND RESIDUAL MOISTURE SUPPRESSANT

DESCRIPTION
Ideal for fast track installation, ARDEX DPM 1 C R is a rapid curing damp proof membrane.

• Guarantees the early laying of all floorcoverings
• Walkable in 4 hours
• Accommodates hygrometer readings up to 98% RH in one coat
• Adheres well to wet concrete even at 10°C

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th></th>
<th>85% RH</th>
<th>98% RH</th>
</tr>
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<tbody>
<tr>
<td>250 microns per coat</td>
<td>350 microns per coat</td>
<td></td>
</tr>
</tbody>
</table>

ARDITEX NA Ultra Rapid Setting Latex Sub-Floor Levelling and Smoothing Compound
Can be applied directly to any ARDEX Damp Proof Membrane up to 6mm, without priming!
DESCRIPTION
ARDEX P 51 is a concentrated, blue, solvent-free multi-purpose primer with a wide range of applications which, after drying, helps to inhibit the penetration of water from subsequently applied materials.

- Seals and primes gypsum based floors, cement/sand screeds and concrete
- Minimises air bubbles rising through levelling compounds and porous surfaces
- Provides up to 160m² coverage per 5kg unit

For the full range of ARDEX primers visit www.ardex.co.uk

ARDEX P 51 is recommended to prime the substrate before laying either ARDEX K 11 or FA 20 Levelling and Smoothing compounds

### COVERAGE

<table>
<thead>
<tr>
<th>SURFACE</th>
<th>DILUTION</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement/Sand Screeds</td>
<td>5kg : 5 volumes water</td>
<td>approx. 160m²</td>
</tr>
<tr>
<td>Sound Anhydrite Screeds</td>
<td>5kg : 3 volumes water</td>
<td>approx. 100m²</td>
</tr>
<tr>
<td>Power Floated Concrete</td>
<td>5kg : 2 volumes water</td>
<td>approx. 60m²</td>
</tr>
<tr>
<td>Rough Concrete</td>
<td>5kg : equal volume water</td>
<td>approx. 35m²</td>
</tr>
<tr>
<td>Neat</td>
<td>5kg : neat</td>
<td>approx. 25m²</td>
</tr>
</tbody>
</table>
The old adage failing to prepare is preparing to fail is never truer than when installing a floor.

Whether the final covering is resilient flooring, ceramic tiling, or natural stone, careful consideration of the existing subfloor, including any screed, smoothing compound or old floorcovering adhesive, is essential in creating a stable, durable, high quality end result.

Cutting corners or overlooking the demands of sub-floor preparation is ill advised at best, and inevitably a false economy. In the current economic climate if some of the time consuming, costly and labour intensive aspects of preparing a floor to receive a covering can be minimised, whilst maximising long term performance, these can be welcome savings for the contractor and client.

In the codes of practice, British Standards and industry guidance documents, the advice is always to ensure the floor is free from contaminants and areas of loose, weakly adhered or friable debris which may impair or impede the bonding of the underlayment to the base sub-floor. This is of course absolutely necessary, but the work involved in achieving a perfect substrate on which to install the new floorcovering can be problematic and tedious, especially for the last few difficult to remove remnants of residues. These residues can be old floorcovering adhesives, previously applied smoothing compounds, or simply a rough, poor quality concrete surface, that will often be a large and costly part of a contractor’s work, even before the floorcovering installation has begun.

In some situations there may be limitations on carrying out any preparatory work, such as the impracticality of closing off certain areas or difficulties in installing dust extraction equipment. Examples where this may be the case include hospital wards and corridors, large shop floors or environments that are in use 24 hours a day. Hospitals are likely to have strict requirements surrounding work associated noise, dust and indeed vibration, particularly when in close proximity to operating theatres or neonatal departments.
ARDITEX NA has the ability to adhere to surfaces which would have previously been viewed as problematic or not ready to receive floorcoverings without intensive preparation. These include rough and poor concrete surfaces, old adhesive residues, flooring grade asphalt and remnants of black ATA. It must be stressed that good practice states that all large, unsound and loose areas of previous adhesives or residues must be removed, but this is not always the easiest part of preparation. Following the removal of any loose or unsound material, and ensuring that the surface is dust free, ARDITEX NA can be applied to create a sound, level and smooth surface that is ready to receive floorcoverings and ceramic tiling after only 4 hours. Furthermore, no priming is necessary on most surfaces! ARDITEX NA can even be applied directly onto roughened, bright finished steel surfaces. Again, there is no need to prime which reduces time, cost and labour. In addition, ARDITEX NA has received MED Modules B & D approval for use as a primary deck covering on steel decks in marine and offshore applications.

ARDITEX NA is unaffected by moisture, meaning it can be applied to damp concrete as long as no surface water is present, making it is possible to smooth a rough area of concrete, install a robust DPM, such as ARDEX DPM 1 C, and smooth over once more with ARDITEX NA, all within as little as 5mm total thickness.

For over 40 years the ARDITEX range of latex levelling and smoothing compounds have offered the professional flooring contractor unique application and performance benefits that help to minimise the risks associated with installation.

By reducing the need for intensive preparation, and priming, ARDITEX NA saves the professional flooring contractor both time and money. Renowned versatility, advanced site tolerance and a reduction in preparation machinery hire, lost time and expensive call backs as a result of failures that can be associated with working in sensitive locations, all help to ensure that with ARDITEX NA, there really is no alternative.
ARDITEX NA covers virtually everything, including flooring grade asphalt and bitumen adhesive residues

ARDITEX NA

ULTRA RAPID SETTING LATEX SUB-FLOOR LEVELLING AND SMOOTHING COMPOUND

DESCRIPTION

ARDITEX NA is a self-smoothing, protein free, latex levelling compound that covers virtually everything! It has improved flow and excellent properties of adhesion, flexibility and water resistance.

- Can be used with confidence over old adhesive residues, including bitumen, and even direct to ceramic tiling
- Ultra rapid setting, apply floorcoverings after only 4 hours
- Can be used under or over an ARDEX Damp Proof Membrane
- No primer required

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th>TOTAL</th>
<th>NEAT</th>
<th>WITH ARDEX COARSE AGGREGATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 - 30mm</td>
<td>1.5 - 12mm</td>
<td>8 - 30mm</td>
</tr>
</tbody>
</table>

Use up to an equal volume of ARDEX Coarse Aggregate to the ARDITEX NA mix
ARDITEX RS PLUS

RAPID SETTING, LATEX SUB-FLOOR LEVELLING AND SMOOTHING COMPOUND

DESCRIPTION
ARDITEX RS PLUS is a self-smoothing, latex levelling compound with excellent properties of adhesion and water resistance. Designed for use on sub-floors such as concrete, cement and sand screeds, terrazzo and quarry tiles.

- Floorcoverings can be applied after 6 hours
- Suitable for use over most isolated old adhesive residues
- Can be applied up to 12mm with the inclusion of ARDEX Coarse Aggregate

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th>TOTAL</th>
<th>NEAT</th>
<th>WITH ARDEX AGGREGATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 - 12mm</td>
<td>1.5 - 6mm</td>
<td>6 - 12mm*</td>
</tr>
</tbody>
</table>

*Use up to a third volume of ARDEX Coarse Aggregate to the ARDITEX RS PLUS mix.
ARDEX K 11

RAPID HARDENING LEVELLING AND SMOOTHING COMPOUND

DESCRIPTION

ARDEX K 11 is a water-based levelling and smoothing compound designed for levelling and smoothing a wide range of sub-floor types including cement/sand screeds, gypsum screeds and concrete.

- Rapid hardening - walkable in 2½ hours
- Suitable for use over traces of adhesive residues
- Can be applied by trowel or pump
- Apply floorcoverings the next day

APPLICATION THICKNESS

TOTAL

1.5 - 10mm

DON’T FORGET YOUR ARDEX P 51 PRIMER
ARDEX FA 20

RAPID DRYING, FLEXIBLE FLOOR LEVELLING AND SMOOTHING COMPOUND FOR TIMBER FLOORS

DESCRIPTION
ARDEX FA 20 has a MICROTEC® formulation with reinforced fibres that ensures a flexible, crack-free finish with exceptional stability, when used to smooth timber floors prior to applying floorcoverings.

• Rapid hardening and drying – Walkable in just 2 hours
• Can be applied directly to floor boards
• Excellent smooth surface finish
• High yield - Approx 5m² at 3mm thick
• Multipurpose, also ideal for levelling and smoothing cement/sand screeds, steel and existing tiled surfaces

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th>TOTAL</th>
<th>NEAT</th>
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<tbody>
<tr>
<td>3 - 20mm</td>
<td>3 - 10mm</td>
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</table>

For thicknesses between 10-20mm sand must be added to the mixed ARDEX FA 20 mortar. The sand can be added up to a maximum of a third of the mortar volume.

DON’T FORGET YOUR ARDEX P 51 PRIMER
ARDEX FEATHER FINISH

RAPID DRYING PATCHING AND SMOOTHING COMPOUND

DESCRIPTION

ARDEX FEATHER FINISH is an ultra-rapid drying sub-floor smoothing compound. Use for patching, filling and feather finishing on plywood, concrete, cement/sand screeds, sound levelling compounds and existing ceramic tiles.

- Floorcoverings can be installed after as little as 15 minutes
- True feather edge allows for greater coverage
- Cost effective - up to 50m² coverage per 11kg bag

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th>TOTAL</th>
<th>NEAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 12mm (4 x 3mm*)</td>
<td>0 - 3mm</td>
</tr>
</tbody>
</table>

*Screeds and concrete only. For thicknesses from 3mm to 12mm, build up in thin 3mm applications.

Maximum total thickness of 3mm on timber floors.
ARDEX ARDURAPID A 45

RAPID DRYING AND HARDENING INTERNAL REPAIR MORTAR

DESCRIPTION
ARDEX ARDURAPID A 45 is a rapid hardening and drying repair mortar for internal use. Ideal for making good stair treads, risers and repairing cracks and holes in screeds. Other applications include: forming ramps, falls and coves, patching around fittings/pipework and filling cracks and joints.

- Receives finishes after 1½ hours regardless of thickness
- Slump free - ideal for vertical and horizontal repairs
- Ideal for the rapid repair of internal concrete and sand cement screeds

APPLICATION THICKNESS

<table>
<thead>
<tr>
<th>TOTAL</th>
<th>NEAT</th>
<th>WITH ARDEX AGGREGATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20mm</td>
<td>0 - 5mm</td>
<td>5 - 20mm*</td>
</tr>
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</table>

*Use up to an equal volume of ARDEX coarse Aggregate or 1/3 volume of clean sharp sand.
ARDEX AF 2510

IDEAL FOR HARDWOOD FLOORS & AREAS SUBJECT TO HIGH HEAT SUCH AS CONSERVATORIES

DESCRIPTION
Two-Component Polyurethane Flooring Adhesive

- 45-60 minute open time
- EC1 certified, low odour and virtually emission free
- Water resistant once cured, so it can be used externally
- High heat resistance, making it ideal for use in conservatories or areas behind glass
- Perfect for surfaces subject to high loads such as industrial premises or sports centre

COVERAGE
Refer to product datasheet for details

ARDEX AF 100

PRESSURE SENSITIVE, IDEAL FOR SECURING PVC SHEET AND LVT FLOORCOVERINGS SUCH AS THOSE FOUND IN HOSPITALS

DESCRIPTION
Pressure Sensitive Solvent-Free Acrylic Flooring Adhesive

- Excellent permanent tack with exceptional grab
- Excellent early and long term adhesive strength
- Low odour, solvent-free
- Use to reduce trowel serration shadowing through thin vinyl flooring

COVERAGE
Refer to product datasheet for details
ARDEX AF 3000

IDEAL FOR SECURING TEXTILE FLOORCOVERINGS

DESCRIPTION
General Purpose High Quality Floorcovering Adhesive

• Ideal for securing a wide variety of textile floorcoverings
• Excellent wet grab and rapid strength development
• Up to 20 minutes open time

COVERAGE
Refer to product datasheet for details

ARDEX AF 150

IDEAL FOR PVC SHEET AND VINYL FLOORCOVERINGS

DESCRIPTION
Solvent Free, Acrylic Floorcovering Adhesive

• Suitable for use on vertical surfaces
• Extended tack time of up to 40 minutes
• Excellent early and long term adhesive strength

COVERAGE
Refer to product datasheet for details
**TRAINING**

**ARDEX** offer a wide range of demonstrations and seminars that can be tailored to suit a customer’s specific requirements.

Courses can either take place at the company’s purpose built demonstration facility located in Haverhill, Suffolk, or alternatively at a workplace or a location of the customer’s choice. Training is carried out by our team of technical experts who, not only have extensive knowledge, but also practical experience of the flooring and tiling industries. This enables ARDEX to offer course content that is accurate and includes the latest information on technological advances and industry regulations. ARDEX is also committed to assisting a number of key training colleges across the country with products demonstrations, literature, technical support and advice.

To find out more, contact your local **ARDEX** Area Sales Manager or call **01440 714939**.

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**USEFUL INFORMATION**

**ARDEX online: www.ardex.co.uk**

- Stockist locator
- Comprehensive project reference selector
- Full technical/health & safety product data
- Complete product range featured
- Latest news & press releases
- Coverage calculator
ARDEX Technical Services

The ARDEX Technical Services department is available to answer any technical queries between 08.30 and 17.00 GMT Monday to Friday.

Call on 01440 714939 for an answer to your technical question. You can also forward your queries by fax on 01440 716663, or by email: technical.services@ardex.co.uk. Or by post:

Technical Services Department
ARDEX UK Limited, Homefield Road, Haverhill, Suffolk CB9 8QP, UK

ARDEX Customer Services

The ARDEX Customer Services department is available to answer any queries between 08.30 and 17.00 GMT Monday to Friday.

Call on 01440 714939, fax on 01440 716640 or email info@ardex.co.uk.

ARDEX CPD Academy

ARDEX UK is committed to providing RIBA approved Continuing Professional Development (CPD) Seminars that allow an attendee to improve and broaden their knowledge and skills base within the key construction industry sectors of tiling and flooring. The knowledge gained through an ARDEX CPD Seminar will have a positive impact on an attendee’s ability to specify and implement best practice, leading to more accurate specifications and an increase in the quality of work carried out on-site.

www.ardexcpdacademy.com
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Complete and return the reply paid card to take part in future ARDEX promotions.

These are examples of previous promotions and may not be currently available.