



APRIL 2026 PRODUCT
DATA SHEET

ARDEX PU 30

Ready-to-Use Polyurethane Primer & Moisture Barrier

Features

- For the priming of moisture sensitive substrates up to 98% RH
- Strengthens the surface of weak and absorbent substrates
- Suitable for priming both internal and external absorbent and non-absorbent substrates
- Suitable for use over lignite found within screeds
- One component, ready-to-use, resealable and re-usable
- Suitable for use on heated screeds
- Very low emissions, water and solvent free



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ARDEX PU 30

Ready-to-Use Polyurethane Primer & Moisture Barrier

DESCRIPTION

ARDEX PU 30 is a ready-to-use, one-component, solvent-free, low-emission polyurethane primer and moisture barrier for absorbent and non-absorbent subfloors. When fully dry, two coats of ARDEX PU 30 produces a membrane which can accommodate hygrometer readings up to 98% RH. Due to the reaction with moisture a hard and dry film will be achieved. ARDEX PU 30 meets the requirement guidelines for the EMICODE licence 'EC1 PLUS', achieving the lowest possible emission limits.

USE

ARDEX PU 30 can be used as a primer to strengthen weak screed surfaces (one coat) or as a moisture barrier (two coats) for smooth and dense substrates in both internal and covered external areas i.e. garage floors.

Primer and moisture barrier onto absorbent and non-absorbent substrates such as:

- Concrete
- Anhydrite/Calcium Sulphate Screeds
- Old Levelling and Smoothing Compounds
- Flooring Adhesive Residues
- Flooring Grade Plywood
- Tile Adhesive Residues
- Ceramic or Terrazzo Tiles
- ARDEX Damp Proof Membranes

MOISTURE TESTING

Moisture testing should be undertaken in accordance with BS 8203: 2001+ A1:2009.

SUBSTRATE PREPARATION

Prior to application, the surface must be hard, surface dry, and free of dust, laitance, dirt and other barrier materials which are likely to impair adhesion, such as paint, lime coatings, plaster and adhesive residues. Remove all surface water. Highly polished power floated concrete or concrete curing agents, admixtures, surface hardeners and the residues of these products can impair adhesion.

Where doubt exists, or the compatibility is unknown, a trial adhesion test with ARDEX PU 30 should be carried out before work commences. Any incompatible curing agents, admixtures, surface hardeners or water sensitive materials such as adhesive residues or other surface contamination must be removed by grinding or contained shot blasting as appropriate.

APPLICATION

Shake ARDEX PU 30 well before use. Pour the primer into a clean vessel and apply within 60 minutes. Apply an even coat with a suitable short pile roller in one direction over the appropriate area. Avoid puddles as this will affect the drying time.

Once the first coat of ARDEX PU 30 has been applied, the coat should be dry and walkable in as little as 60 minutes, ready to receive its second coat as a moisture vapour barrier (up to 98% RH) or ARDEX P 7 prior to the application of the chosen ARDEX Levelling and Smoothing Compound.

When applying ARDEX PU 30 onto the substrate, ensure that any primer which is surplus to requirements, and has been moved across the subfloor, is not placed back into the container. It should be placed into an alternative container for safe, easy disposal. This will avoid possible contamination issues.

All movement joints in the subfloor must be carried through the topping and properly sealed. Construction joints and cracks, not subject to movement, may be overlaid but should the floor move in any way, these defects will reflect through the system. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

APPLICATION - MOISTURE BARRIER

When used as a moisture vapour barrier on sand and cement screeds or concrete (unheated), ARDEX PU 30 can accommodate moisture readings up to 98% RH. For moisture readings up to 90% RH, apply an even coat (100-150g/m²) of ARDEX PU 30 in one direction and allow to dry. For moisture readings above 90% and up to 98% RH, apply ARDEX PU 30 in two coats, allowing an hour drying time between coats, and applying the second coat at right angles to the first.

A minimum amount of 250-300g/m² for two coats must be applied with each layer having a uniform thin film.

For the installation of ARDEX Levelling and Smoothing Compounds, ARDEX PU 30 should be primed with ARDEX P 7 after 60 minutes, but no later than 24 hours. Alternatively, a third coat of ARDEX PU 30 can be sand blinded with ARDEX FINE AGGREGATE. This must be carried out whilst the ARDEX PU 30 is still fresh and as the application progresses.

Blinding is a full covering of dry ARDEX FINE AGGREGATE onto the wet ARDEX PU 30 surface. Once the ARDEX PU 30 has set, after 2 hours, the excess fine aggregate must be removed by brushing or vacuum, leaving a sandpaper like finish, ready to receive your chosen ARDEX Levelling and Smoothing Compound.

APPLICATION - PRIMER

When used as a primer for strengthening the surface of weak screeds, ARDEX PU 30 has to be applied in a thin layer. In general, one layer will be sufficient, however, for very porous and absorbent substrates a second coat should be applied. Penetration depth and amount to be applied depends on the absorbency of the substrate. In doubt invest in trial areas.

For dry sand and cement or anhydrite (calcium sulphate) screeds (less than 75% RH) contaminated with lignite, apply one coat of ARDEX PU 30 and immediately sand blind with ARDEX FINE AGGREGATE whilst still wet. After 2 hours remove the excess fine aggregate before applying your chosen ARDEX Levelling and Smoothing Compound.

Alternatively, you can apply ARDEX P 7 to ARDEX PU 30 once dried, to provide a mechanical key for bonding of the subsequent ARDEX Levelling and Smoothing Compound layer, e.g. ARDITEX NA or ARDEX K 40 FLOW.

APPLICATION - EXTERNAL OR INDUSTRIAL

When used in covered external or industrial areas, including garages, ARDEX PU 30 must be sand blinded with ARDEX FINE AGGREGATE prior to the application of ARDEX K 301 Exterior Self Levelling Concrete Resurfacing Compound, or for internal areas, ARDEX K 71 Industrial Topping and Wearing Surface. Alternatively, ARDEX P7 can be applied to ARDEX PU 30 for internal areas prior to installing ARDEX K 71.

UNDERFLOOR HEATING

ARDEX PU 30 is suitable for use on sand and cement screeds containing underfloor heating, where two coats can be applied to block excessive moisture up to 85% RH.

ARDEX PU 30 can be used on heated screeds that have been installed and commissioned in accordance with BS 8204 Part 1, taking into account the recommendations in Part 4 of BS EN 1264. It is not suitable for use on direct to ground substrates without a functioning, structural damp proof membrane. Please refer to the ARDEX DPM 1 C or ARDEX DPM 1 C R datasheet for applications where no structural damp proof membrane exists.

PACKAGING

ARDEX PU 30 is supplied in a 11kg plastic container and is ready to use. Part used containers should be resealed after use and the contents will remain usable for at least 6 weeks if stored under good conditions.

STORAGE

Store in dry conditions out of direct sunlight & between 5°C and 30°C. Protect from frost. ARDEX PU 30 has a storage life of 12 months from the date shown, in the original unopened containers.

CLEANING TOOLS

All tools should be cleaned with ARDEX Heavy Duty Wipes before the ARDEX PU 30 dries.

LEVELLING AND SMOOTHING

Once the ARDEX PU 30 is dry and has been primed using ARDEX P 7 or sand blinded with ARDEX FINE AGGREGATE, you can apply your chosen ARDEX Levelling and Smoothing Compound to the recommended thickness on most common substrates. For example, ARDEX K 40 HB from 3mm up to 40mm, providing that the substrate is not humidity sensitive, such as Flooring Grade Plywood or OSB. Maximum thickness of 10mm above calcium sulphate screeds. Seek technical guidance for more information. Visit the relevant ARDEX Levelling and Smoothing Compound technical datasheet to learn more about application depths.

NOTE: For the latest technical or health and safety information on this product, consult the current technical or health and safety datasheet online at www.ardex.co.uk

TECHNICAL ADVICE HELPLINE
01440 714939

ARDEX online
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COVERAGE

Each 11kg unit will cover up to 110m² (one coat) or 44m² (two coats). **NOTE:** Coverage will depend upon the absorbency and texture of the substrate. The coverage figures stated assume a smooth, dust-free surface as a substrate.

To ensure that the correct film thickness is achieved mark out the required area, either 110m² or 44m², and ensure that half the contents of the unit is spread uniformly over the area per coat.

The applied wet film thickness can be checked with a suitable wet film thickness gauge. ARDEX PU 30 cannot be used on floorcoverings such as PVC, CV, rubber or linoleum flooring. Containers should be resealed after use and stored under good conditions.

SAFETY PRECAUTIONS

Keep out of reach of children.

Irritant: Avoid eye and skin contact.

Use only in well ventilated areas.

Keep container tightly closed.

In case of contact with eyes and skin, rinse with plenty of water. Consult the relevant health and safety datasheets for full information.

In case of accidents seek medical advice.

ARDEX GROUP WARRANTY

ARDEX Group supplies products under a range of brands into the UK and Ireland markets. This Warranty applies to BAL, ARDEX, Gutjahr, Wakol, Loba, Wedi or Knopp products whether used individually or in combination, provided they are used in accordance with the relevant product datasheets and the warranty terms and conditions are available on the website. This Warranty applies only to products purchased and used in the UK and Ireland directly from one of the brands or a brand authorised stockist.

NOTE: For the latest technical or health and safety information on this product consult the current technical or health and safety datasheet online at www.ardex.co.uk.

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 anytime 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.