



ARDEX PU 30

1-K Polyurethane Primer and Moisture Barrier

- One-component, ready to use
- Priming absorbent and non-absorbent subfloors
- Dries in as little as in an hour
- Moisture barrier up to 4% CM
- Priming of old and new substrates
- Low VOC, water and solvent free
- EMICODE EC 1 PLUS Certificate



DESCRIPTION

ARDEX PU 30 is a one-component polyurethane primer and moisture barrier for use on internal and external porous and non-porous substrates. ARDEX PU 30 Rapid penetrates the surface of the substrate blocking capillary moisture up to 98% RH, while strengthening and consolidating the surface.

USE

Absorbent, smooth and dense surfaces such as concrete, green concrete, floor levelling compounds, fibre cement sheet, fibre cement sheet underlay, sheet timber, plaster, ceramic tiles and terrazzo floors.

ARDEX PU 30 is suitable to prime and be used as a moisture suppressant for ARDEX polyurethane-based flooring adhesives, and when sand broadcasted is suitable under ARDEX levelling compounds.

It is applied on the following absorbent and moisture sensitive substrates to form a separating layer;

- As a moisture barrier against moisture up to 4% (CM measurement) on cementitious screeds and concrete floors.
- As a moisture barrier against humidity up to 3% (CM measurement) in underfloor heated cement screed and concrete floors
- To consolidate dusting and splintering parts at edges of calcium sulphate, cementitious and concrete floors.
- Concrete surfaces, cementitious, calcium sulphate and old cast asphalt screeds.
- Old screed and water resistant adhesive residues provided that they are strongly bonded to the substrate.
- Moisture sensitive floors such as wood, chipboards, mdf and OSB plates.
- Dry screeds such as plaster or calcium sulphate plates and old silane modified (MS) adhesive residues.
- Old but solid tiles, mosaics and terrazzo floors.

SUBSTRATE PREPARATION

The subfloor as well as the room climate conditions must meet the requirements of the applicable standards and data sheets. An exception is only made for the residual moisture content of the cement-based subfloor if the primer is used to block capillary moisture.

Mechanically pre-treat and thoroughly vacuum-clean calcium sulphate screeds according to the manufacturer's specifications or according to the applicable standards and data sheets.

The usage as moisture barrier may only occur on permanently moisture-proof subfloors and for the purpose of blocking capillary moisture.

In the case of heavy, constantly rising moisture and water vapour diffusion the primer cannot be used, as the product does not replace structural waterproofing as set out in Part 4 of DIN 18195.

APPLICATION

Shake ARDEX PU 30 well before use. Pour the primer into a clean vessel and apply within 60 minutes. The application has to be done with standard short pile rollers.

Avoid puddles this will affect the drying time.

1. Application as a moisture vapor barrier onto sand cement screeds and concrete floors with a moisture content up to 4% (Measured with CM method)

The substrate has to be dry and wet-able. Apply ARDEX PU 30 in two coats cross wise. A minimum amount of 250-300 g/m² for two coats has to be applied. The second coat can be applied after approx. 60 minutes. Each layer has to form a uniform thin film.

For the installation of Leveling compounds the second coat should be primed with ARDEX P 4 earliest after 60 minutes but not later than 24 hours. As an alternative to the ARDEX P 4 a third coat of ARDEX PU 30 with sand blinding with Quartz Sand size 0.3-0.9 mm. Please remove the excess sand after 2 hours by means of brush and vacuum cleaner.



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2. Priming and consolidation of surfaces

ARDEX PU 30 has to be applied in a thin layer cross wise. In general one layer will be sufficient. If very porous and absorbent substrates have to be primed a second coat should be applied.

Penetration depth and amount to be applied depends on the absorbency of the substrate. In doubt invest in trials. If levelers have to be applied use ARDEX P4 or sand blinding acc. to the recommendation above.

3. Priming below ARDEX reactive adhesives

ARDEX PU 30 has to be applied as above in a thin layer. After a minimum drying time of 2 hours, but within 24 hours the installation with the ARDEX adhesive should be done.

LIMITATIONS

To be observed: If permanent vapor or with developing moisture and water vapor ARDEX PU 30 cannot be used. ARDEX PU 30 is not a waterproofing product.

Do not use below +10°C. All values given refer to a temperature of +20°C and 50% RH. Lower temperatures and lower RH may slow down the drying of the product.

ARDEX PU 30 has to be applied in a thin layer. Avoid puddles.

ARDEX PU 30 cannot be diluted with solvents or water. Penetration depth and amount to be applied depends on the absorbency of the substrate. In doubt invest in trials.

If levelers have to be applied use ARDEX P4 or sand blinding acc. to the recommendation above. ARDEX PU 30 cannot be used on floor coverings such as PVC, CV-, rubber and linoleum. Please use up once opened packaging quickly

PRECAUTIONS:

This product is harmful if inhaled and may cause irritation and an allergic reaction to the skin. It causes serious eye irritation and may cause allergy or asthma symptoms or breathing difficulties if inhaled. It is suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Store locked up. Keep out of the reach of children. Additional information is in the Safety Data Sheet (SDS) at www.ardex.com.tr

TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

Material requirement:	1 layer as primer: 100 - 150gr/m ² 2 layers as moisture barrier: 250 - 300gr/m ²
Working time:	Approx. 60 minutes
Walkability:	Approx. 40 - 50 minutes
Setting time:	As primer, approx. 1 hours Approx. 2 hours with sand blinding
Suitable for underfloor heating	Yes
EMICODE:	EC1 ^{PLUS} - very low emissions
GISCODE:	RU 1 - solvent-free
GHS/CLP classification	GHS 07 "Harmful" GHS08 "Respiratory sensitization" Signal Word: "Danger"
GGVSEV/ADR classification:	None
Packaging:	11kg plastic can
Storage and Shelf Life:	ARDEX PU 30 has a shelf life of 18 months if stored in original unopened packaging in a dry place at 23°C and 50% relative humidity. Store away from direct sunlight. Replace lid tightly after use. Do not allow to freeze.