



ARDEX P 51

Concentrated water-based Primer and Bonding Agent

Multipurpose: suitable for various applications

Easy to use, dilute as appropriate for the application

For floors, walls and ceilings - including dense and porous surfaces

Ideal for sealing and priming gypsum based plasters and screeds

Minimises air bubbles rising through levelling compounds and porous surfaces

Low odour and solvent-free

Cost effective: up to 160m² / 5kg unit



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DESCRIPTION

A concentrated, milky white, synthetic, water-based, 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.

USE

This product is used to prepare internal floors, walls and ceilings to receive cement-based mortars (leveling compounds, tile adhesives and screeds) as well as plaster based materials, improving adhesion as a bonding agent and retarding the wetting of the substrate by the applied materials.

- Effective pore sealer on absorbent subfloors inhibiting air bubbles rising through subsequently applied subfloor smoothing and levelling compounds, thus extending their flow life and workability.
- ARDEX P 51 can be used to prime and seal the surfaces of cement or gypsum plaster based materials such as wall plaster, floors of cement based or prepared anhydrite and alpha hemihydrate pumped screeds before applying cement-based products such as levelling compounds and tile adhesives.
- ARDEX P 51 can be used as a bonding agent to improve adhesion to dense and smooth concrete subfloors and dense cement-based screeds before using repair mortars or cement-based tile adhesives.
- Suitable for priming rigidly supported and conditioned plywood subfloors before fixing ceramic tiling with appropriate cement-based tile adhesives.
- ARDEX P 51 can be used as a temporary protective coating over cement-based smoothing compounds and repair mortars where these have to be walked on before the flooring is applied and as a temporary dust-proofing treatment on screeds.

SUBSTRATE PREPARATION

Substrates must be dry, protected by a functioning DPM, firm and free from dust, water soluble materials, excess adhesive residues and other barriers to adhesion. Surface contamination such

as residues of polish, wax, grease, etc. should be removed using ARDEX degreaser prior to suitable mechanised preparation.

ARDEX P 51 is not recommended for use on metal and mastic asphalt, excess adhesive residues, ARDEX DPM, polyurethane and epoxy coatings. Consult the ARDEX P 82 Water Dispersed Epoxy Primer and ARDEX R 3 E General Purpose Epoxy Primer datasheets for guidance.

APPLICATION

Shake the container well before use and dilute when required by putting the ARDEX P 51 into a clean container and mix with the required quantity of water as specified in the selected mixing ratio. Ensure that the ambient temperature and the temperature of the surface being primed are above 5°C.

If ARDEX P 51 is used where moisture sensitive materials are to be subsequently applied, the substrate must be dry, i.e. with flooring materials the screed should have a RH reading not greater than 75% and, where direct to ground, protected by an effective damp proof membrane.

Apply the priming coat evenly with a soft broom or brush, over the sound, clean and dust-free surface and leave to dry thoroughly to a clear, thin blue film before beginning any subsequent work.

Use in bonding coats for screeds

ARDEX P 51 is also excellent for improving adhesion of bonded ARDEX A 35 Cement and Sand Screeds.

Best results are obtained by mixing ARDEX P 51 Primer 1:1 with water and then mixing this with a mix of 1 part ARDEX A 35 Cement with 1 part Screeding Sand to produce the required bonding slurry/grout consistency. May also be used to produce a bonding slurry/grout for ordinary cement and sand screeds, simply use ordinary Portland Cement in place of ARDEX A 35 Cement. NOTE: Always apply screed fresh in fresh into Bonding Coat.

COVERAGE

The coverage figures in the table below will vary depending on the roughness of the surface and absorbency of the substrate.

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Mixing ratio: Parts ARDEX P 51 to water	Dilution	Approx. Coverage per 5kg unit of ARDEX P 51
undiluted on timber floors	none	25m ²
1 part P 51 : 1/2 part water	1 : 1/2	25m ²
1 part P 51 : 1 part water	1 : 1	33m ²
1 part P 51 : 2 part water	1 : 2	60m ²
1 part P 51 : 3 part water	1 : 3	100m ²
1 part P 51 : 5 part water	1 : 5	160m ²

The following table on the use of priming coats also explains the treatment of substrates on which filling, smoothing and levelling work is to be done.

Substrate	Dilution
Smooth and non-porous substrates, e. g. prefabricated concrete floors, dense cement screeds, improved calcium sulphate screeds, terrazzo, sandstone, ceramic tile and slab type finishes, suitable existing substrates with residues of adhered mortars and adhesive residues to receive smoothing compounds and cement based adhesives	1 part P 51 with 1/2 part water
Rough concrete subfloors and ceilings	1 part P 51 with 1 part water
Power Float Concrete	1 part P 51 with 2 parts water
Porous or highly absorbent cement screeds to receive smoothing compounds and repair mortars	1 part P 51 with 5 parts water
Absorbent and smooth calcium sulphate screeds and pumped calcium sulphate screeds	1 part P 51 with 3 parts water

Mixing with ARDEX A 35 cement and sand to produce a bonding grout/coat when applying a bonded ARDEX A 35 cement and sand screed and as a bonding grout for OPC screeds	1 part P 51 with 1 part water
Smooth concrete walls and ceilings to receive gypsum plaster	1 part P 51 with 3 parts water
To reduce dusting of internal cement screeds or on sub-floor smoothing compounds which may have to be unavoidably left exposed to foot traffic, etc., for a limited period	1 part P 51 with 3 parts water
*Prepared gypsum plastered walls to receive cement-based tile adhesives	1 part P 51 with 3 parts water
Wood-based sheets and boards e.g. to receive smoothing compounds	undiluted

PACKAGING

- ARDEX P51 is supplied in 5, 20 and 200kg containers.
- ARDEX P51 RFU (diluted 1:1) is available and supplied in 5, 20 and 200kg containers.
- ARDEX P 510 (diluted 1:3) is available and supplied in 200kg containers.

SHELF LIFE

ARDEX P 51 must be stored in unopened packaging, clear of the ground; in cool, dry conditions and protected from excessive draught. If stored correctly, the shelf life of this product is 12 months from the date shown on the packaging.

SAFETY PRECAUTIONS

Aqueous synthetic polymer based dispersion. Wash off from skin before drying takes place. Any material slashed into the eye, mouth or nose should be washed away immediately with clean water. Avoid ingestion. Non-toxic and small amounts are unlikely to cause more than temporary discomfort. If large amounts are swallowed seek medical advice. For the latest health and safety information on this product consult the current Safety Datasheet which is available upon request and online at www.ardex-quickseal.com

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DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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