



ARDEX P 51

Primer and Bonding Agent

- Concentrate
- Reliable primer with a wide range of applications
- Primer, bonding agent and pore filler with water-repellent effect
- Prevents air bubbles from rising from the substrate during filling
- Solvent-free



Description

Solvent-free synthetic resin dispersion which, after drying, significantly inhibits the penetration of water.

Use

Indoor use. Floors, walls and ceilings.

Priming, pre-coating, bonding agent and pore sealer with water-repellent effect.

For bonding powdery substrate surfaces, e.g. on sanded, absorbent calcium sulphate and calcium sulphate selflevelling screeds, for priming cement screeds, for accepting filling, levelling and smoothing compounds.

As a bonding agent on smooth concrete floors, particularly compacted cement screeds, modified calcium sulphate screeds, Terrazzo, sandstone, tiles and slab coverings when using levelling compounds and thin-bed mortars.

As a bonding agent on old substrates with adhering levelling compound and adhesive residues.

As a pore sealer on concrete floors and cement screeds

- prevents air bubbles from rising from the substrate during subsequent filling applications
- prevents mixing water from being knocked away during subsequent filling.

For priming gypsum, calcium sulphate and chipboard for thinbed concrete mortar.

As a bonding agent on smooth concrete for gypsum-based wall fillers.

Protective coating for dust binding on fillers and levelling compounds that are used as work surfaces for a short time.

Substrate Preparation

Substrates must be dry, 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 prior to suitable mechanised preparation.

Application

Pour ARDEX P 51 Primer and bonding agent into a clean container and mix with the amount of water specified for the mixing ratio.

Apply the primer evenly with a broom, brush or roller and allow to dry to a clear, thin film before starting the next step.

Material Requirement

ARDEX P 51 is a concentrated product and can be diluted with water depending on the substrate. Approximate consumption rates according to the dilution ratio are given in Table 1, and the type of primer to be used and dilution ratios for each substrate are shown in Table 2.

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Table 1: Possible dilution rates and consumptions

Undiluted ARDEX P 51, approx. 300 gr/m ²
1 unit ARDEX P 51 : ½ unit water, approx. 200 gr/m ²
1 unit ARDEX P 51 : 1 unit water, approx. 150 gr/m ²
1 unit ARDEX P 51 : 3 unit water, approx. 50 gr/m ²
1 unit ARDEX P 51 : 5 unit water, approx. 30 gr/m ²

Table 2: Suitable primer type and dilution rate based on substrate	Dilution
Smooth and non-porous substrates, e.g. prefabricated concrete floors, dense cement screeds, improved calcium sulfate screeds, terrazzo, sandstone, ceramic tile and slab type finishes. (Dependent of the information from the gypsum screed manufacturer, a suitably sand blinded coat of an epoxy primer such as ARDEX R 3 E Moisture Tolerant Epoxy Primer, may be required). Existing substrates with residues of adhered mortars and adhesive residues to receive smoothing compounds and cement based adhesives.	1 part ARDEX P 51 with ½ part water.
Rough concrete sub-floors and ceilings.	1 part ARDEX P 51 with 1 part water.
Power Float Concrete.	1 part ARDEX P 51 with 2 parts water.
Porous or highly absorbent cement screeds to receive smoothing compounds and repair mortars.	1 part ARDEX P 51 with 5 parts water.
Absorbent and smooth calcium sulfate screeds and pumped calcium sulfate screeds	1 part ARDEX P 51 with 3 parts water.
Smooth concrete walls and ceilings to receive gypsum plaster	1 part ARDEX 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 ARDEX P 51 with 3 parts water.
*Prepared gypsum plastered walls to receive cement-based tile adhesives.	1 part ARDEX P 51 with 3 parts water.
Wood based sheets and boards e.g. to receive smoothing compounds or bedding tiles with flexible cement-based tile adhesives such as ARDEX N 23 / ARDEX S 28 NEU	Undiluted.

Considerations

When applying to old substrates, ensure that the levelling compound and adhesive residues are waterproof, sufficiently load-bearing for future loads and adhere well to the substrate. Allow the primer film to dry overnight. Water-soluble levelling compound and adhesive residues (e.g. containing sulphite lye) must be completely removed.

For adhesive residues based on polyurethane, epoxy resin and bitumen, use ARDEX P 82 Synthetic Resin Primer as a bonding agent.

Coatings to be applied on existing ceramic, terrazzo, natural stone, PVC, etc. must be fully bonded to the substrate and must not be detached in any way. Before priming, the surface should be thoroughly cleaned with appropriate products (preferably Lithofin).

In case of doubt, carry out a test application.

Warning

For commercial and professional use only!

May not come into children's hands.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/ international regulations.

For further information, please refer to the relevant Safety Data Sheet (SDS).

Technical Data According To ARDEX Quality Standards

Material requirement:	30 - 300 g/m ² (according to the dilution ratio)
GHS/CLP classification:	none
GGVSEV/ADR classification:	none
Packaging:	10 kg or 25 kg plastic can
Shelf life and storage:	Can be stored frost-free for approx. 12 months in the original sealed container.

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