



ARDEX P 51

Concentrated Primer and Bonding Agent

- For floors, walls and ceilings, including dense and porous surfaces
- Easy to use, dilute as appropriate for the application
- 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



DESCRIPTION

A concentrated, 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 (levelling compounds, tile adhesives, 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 sub-floors inhibiting air bubbles rising through subsequently applied sub-floor 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 sub-floors and dense cement based screeds before using repair mortars or cement-based tile adhesives.

Suitable for priming rigidly supported and conditioned plywood sub-floors 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.

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, 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.

ARDEX P 51 is not recommended for use on metal and mastic asphalt, excess adhesive residues, 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 P51 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 film before beginning any subsequent work.

ARDEX P 51

Concentrated Primer and Bonding Agent

Table 1: Possible dilution rates and consumptions

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

NOTE: The above coverage figures will vary depending on the roughness of the surface and absorbency of the substrate.

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.

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.

*Brush down plaster with a stiff brush to remove any weakly adhered surface residues to expose a cohesively strong matt surface.

N.B. When using ARDEX P 51 on existing substrates, ensure that the residues of levelling compounds, adhesives, etc. are water resistant, sufficiently strong to support anticipated loads and traffic and well adhered to the substrate. Allow priming coats to dry. Always completely remove adhesive residues that are water soluble or softened by water. Where adhesive residues are present on polyurethane, epoxy resin and bitumen based substrates ARDEX P 82 must be used as an adhesive bridge.

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 Health and Safety Data Sheet.

GISCODE: D1

GHS/CLP Classification: None

GGVSEB/ADR: None

Packaging: 10 kg or 25 kg plastic can

Storage and 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.