



ARDEX R 5 E

Epoxy Resin For Use on Damp Substrates

Excellent adhesion to mineral substrates with residual moisture

Adheres to continuous polymeric flooring

Solvent free (100% solids)

Easy application

Internal or external use

Benzyl alcohol free

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Epoxy Resin For Use on Damp Substrates

DESCRIPTION

ARDEX R 5 E is a two-component epoxy resin for use as a primer of ARDEX industrial coatings on mineral substrates with residual moisture. ARDEX R 5 E does not contain solvents or benzyl alcohol, and features excellent wetting properties formulated with hardeners.

After hardening, ARDEX R 5 E is resistant to the passage of water, chemicals, ice and weather.

USES

- Internal or external applications
- Primer for epoxy and polyurethane products on concrete substrates with up to 8% residual moisture
- Not suitable for substrates with permanent hydrostatic pressure

SURFACE PREPARATION

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminants. Mechanically clean the floor using recommended preparation methods such as shot-blasting, scarifying, diamond grinding, shaving or other suitable methods. Vacuum the substrate.

Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example expansion joints).

In the case of new concrete, ARDEX R 5 E should be applied no sooner than 7 days following its installation. In summer and in warmer zones this time can be shortened, but always ensure that substrate moisture content is less than 8% prior to application.

MIXING

Stir the individual components of ARDEX R 5 E before mixing. Thoroughly mix the two components together with a mixer at low speed for a minimum of 3 minutes.

Part of the mixture can be reintroduced into the hardener container to gather remaining residues in the container. The mixture which has been reintroduced into the hardener container can be returned to the mixing container and stirred for a further 30 seconds. This mixing process ensures the product's consistency and that any residual resin remaining in the containers reacts.

After mixing both components, use immediately. 1kg of ARDEX R 5 E remains workable for 45 minutes at a temperature between 18°C and 20°C. Higher temperatures shorten the pot life.

IMPORTANT

Towards the end of the mixture's useful life and due to its high level of reactivity, the mixture will heat up, resulting in a sharp decline in its pot life. The heat increases in proportion to the amount of resin remaining in the container. In these cases (high temperature) do not touch the drum. In case of fumes, cover with the lid, but do not close, and, using the handle, place somewhere cool and well ventilated or somewhere outdoors to prevent the accumulation of gases.

APPLICATION

Apply first coat of ARDEX R 5 E in pure form (without addition of sand, paint thinner etc.) with brush or short/medium nap roller. Drying times depend on ambient temperature and substrate moisture. The primer must be completely dry to the touch, with at least 24 hours elapsing at 20°C before second coat and topcoats are applied.

To ensure sufficient binding efficiency, more than one layer of ARDEX R 5 E may be needed where substrates are very porous to achieve uniform priming which is free from pores and dry areas and which compensates for absorption irregularities in the substrate.

Do not allow more than 72 hours to pass at 20°C; otherwise, it will need to be sanded and re-primed. To ensure insulation from moisture, apply a second coat of primer before applying the polymeric flooring finish. When applying dry resin mortars, the second coat of primer must still be wet. In multilayer systems the second coat of primer should be dusted with sand.

LIMITATIONS

Do not use ARDEX R 5 E where ambient and/or substrate temperatures are less than 10°C or less than 3°C above dew point. Do not use where ambient or substrate temperatures exceed 30°C or where ambient humidity exceeds 85%. If pot life is exceeded the mixed product loses characteristics and should be disposed of.

CLEAN UP

ARDEX R 5 E can be cleaned from tools and equipment immediately after use using an applicable solvent. If the product is allowed to harden, it will have to be removed mechanically.

Any spillage from any of the products must be removed immediately with sand, vermiculite or other inert material and collected in a suitable container for proper handling and treatment. Residues from spillage and empty containers must be dealt with in accordance with local regulations. See product safety sheet for further information.

STORAGE

ARDEX R 5 E can be stored for up to 12 months in its original unopened packaging. The product should be stored in a dry place between 5°C and 30°C. Keep away from frost, direct sunlight and sources of heat.

COVERAGE

Approximately 250-350g/m² per layer.

PACKAGING

ARDEX R 5 E is available in kits of 20kg, containing two parts (13.9kg & 6.1kg).

TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.1kg/L
Working time	45 minutes
Touch dry @ 20°C.	
Dry substrates	8 hours
Wet substrates	24 hours
Walkable after	24 hours
Full cure @ 20°C.	7 days

PRECAUTIONS

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing dust, fumes, gas, mist, spray, vapours. Wear protective gloves, protective clothing, eye and face protection. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a POISONS CENTRE. **IF ON SKIN:** Take off immediately all contaminated clothing. Rinse skin with water. If irritation or rash persists get medical advice. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists get medical advice. Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulation.

Additional information is in the Safety Data Sheet at ardex.co.nz

**Toll Free Technical Services:
1800 224 070 (Australia)
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The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable New Zealand & Australian Standards, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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