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# ARDEX R 27 E

## Conductive Epoxy Coating

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Coloured finish coat with dissipative or conductive properties

High surface and transverse conductivity

Solvent free

Easy application

Smooth or non-slip finish

Easy maintenance and cleaning

High chemical and mechanical resistance

Good adherence to substrate

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# ARDEX R 27 E

## Conductive Epoxy Paint

### DESCRIPTION

ARDEX R 27 E is a two component, solvent-free epoxy paint used in creating conductive/static-dissipative flooring, with a smooth and coloured finish. Once cured, ARDEX R 27 E is easy to clean, waterproof, provides high mechanical and chemical performance, and is easy to maintain. A superconducting primer is not required to create an anti-static finish with high surface conductivity when using ARDEX R 27 E.

If high transverse conductivity is required on the flooring itself, use of a classic system is recommended with superconductor primer such as ARDEX R 7 E with an earthed copper grid.

### USES

- Internal or external applications
- Floors requiring anti-static properties, e.g. operating theatres, warehouses storing explosive or flammable products, robotic areas, rooms with highly sensitive electronic and IT equipment

### SURFACE PREPARATION

The substrate needs to be primed and the film must be completely dry and free of grease, dust, or other loose particles that may impair adhesion.

Substrate tensile strength must be greater than 1.5MPa. Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (e.g. expansion joints).

### PRIMING

Apply ARDEX R 27 E directly on a primed substrate or an existing substrate that has been properly prepared. Prime the substrates with ARDEX R 4 E/ ARDEX R 5 E. Do not allow the primer to dry for any longer than indicated on the product's technical data sheet - otherwise it will need to be sanded and reprimed.

### MIXING

Stir the individual components of ARDEX R 27 E before mixing. Thoroughly mix the two components 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 27 E remains workable for 30 minutes at a temperature between 18°C and 20°C.

### 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

Once components A and B have been mixed together, apply material to properly prepared substrate, using a brush or short or medium-nap roller. Ensure the entire surface is completely painted and that the product has not formed pools. The second layer should be applied as soon as the first is sufficiently cured. The curing time varies depending on environmental conditions. Allow at least 12 hours (at 20°C) between coats. If 48 hours is allowed to elapse, sanding will be required.

To prepare anti-slip finishes, consult ARDEX's Technical Department. If viscosity is too high for application due to low temperature, a xylene-type solvent can be added (maximum 2%).

### LIMITATIONS

Do not use ARDEX R 27 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.

All ARDEX products are manufactured subject to rigorous quality controls and procedures; however, if strict colour consistency is required, it is recommended to use products from the same batch.

Maximum recommended thickness is 500 dry microns.

### COVERAGE

Approximately 250g/m<sup>2</sup> per coat.

### CLEAN UP

ARDEX R 27 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 27 E can be stored for up to 6 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.

## PACKAGING

ARDEX R 27 E consists of two components and is available in 25kg kits.

## TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.4kg/L
Working time @ 20°C	30 minutes
Touch dry	24 hours
Walkable after	48 hours
Full cure	7 days
Resistivity (DIN 51953)	<500kΩ

## PRECAUTIONS

Causes skin irritation. Harmful if swallowed or inhaled. Causes severe burn and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Do not breathe dust, fumes, gas, mist, spray, vapours. Wear protective gloves, protective clothing, eye and face protection. IF ON SKIN: Immediately remove all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE or a doctor. Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulation. Corrosive to the respiratory tract.

Refer to the Safety Data Sheet at [ardex.co.nz](http://ardex.co.nz)

## COLOUR CHART



**Toll Free Technical Services:**  
**1800 224 070 (Australia)**  
**0800 227 339 (New Zealand)**

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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