



CI/SfB

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PRODUCT DATA SHEET

# ARDEX R30E

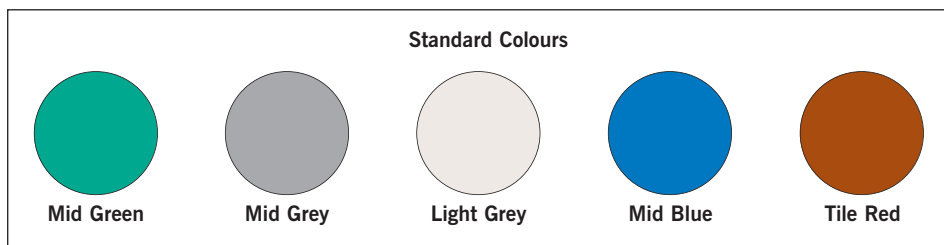
## Water-Based Epoxy Coating

### Features

Low odour, cost effective floor maintenance coating

Improves durability of concrete surfaces

Available in a range of colours



Due to printing process, colours can only be approximate



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# ARDEX R 30 E

## Water-Based Epoxy Coating

### DESCRIPTION

To provide an easily cleaned surface, with excellent adhesion to concrete and cement/sand screeds. Particularly suitable for floor applications in garages, warehouses, light industry and other areas subject to light vehicle and pedestrian traffic.

### SURFACE PREPARATION

It is essential that ARDEX R 30 E is applied to sound, clean and dry surfaces to ensure maximum adhesion.

ARDEX R 30 E is designed for use as a thin coat application.

**NOTE:** Thin coatings will reflect the surface texture of the substrate and as such high spots may lead to premature wear of the coating, thus surface preparation techniques should be chosen appropriately. The ideal substrate for application is a flat, lightly textured, clean concrete surface.

### SUBSTRATE PREPARATION

The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., that will inhibit adhesion to the substrate.

Use ARDEX DGR degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying ARDEX R 30 E. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

**NOTE:** Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. New concrete slabs must be allowed to cure for at least 14 days.

For all proprietary products used as substrates please refer to the manufacturer's instructions for advice on priming.

### MIXING

The individual components of ARDEX R 30 E should be thoroughly stirred before being mixed together. The entire contents of the component B container should be poured into the component A container and the two materials mixed thoroughly for at least 3 minutes using a heavy duty slow speed drill and spiral paddle. Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Mixing in this way will ensure product consistency and that any resin that remains in the containers after application will cure to provide for easier waste disposal.

**NOTE:** For porous or very absorbent substrates, up to 900ml of water may be added per 6kg unit for the initial coat to improve application and coverage. If the surface remains absorbent, up to 500ml of water per 6kg unit may be used for the second coat. **NOTE:** Once mixed, the ARDEX R 30 E will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

### COATING

Once mixed the ARDEX R 30 E should be poured directly onto the floor and distributed without delay onto the prepared surface using a brush or short/medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material does not occur. If a second coat is to be applied, then this should be applied as soon as the first coat has initially dried (typically 12 to 18 hours).

This time will vary depending upon the condition of the surface and the ambient temperature. Provision for ventilation and air movement will be required. When using new rollers, ensure that all loose fibres are removed prior to use, any loose fibres released from the roller will cause unsightly blemishes in the finished coating.

### SLIP RESISTANT FINISH

A fine textured finish with improved slip resistance may be achieved by the use of ARDEX Fine Aggregate. Following the application of the first coat of ARDEX R 30 E, a scatter of ARDEX Fine Aggregate should be applied into the wet coating to seed the surface, taking care to achieve a uniform distribution. The second application of ARDEX R 30 E will then encapsulate the fine aggregate.

**NOTE:** The coverage rate of the pack will be reduced.

### LIMITATIONS

These products should not be applied at temperatures less than 10°C or where the ambient relative humidity is greater than 85%.

**NOTE:** The rate of wear of this coating will be increased in areas of concentrated foot and vehicle traffic, in particular, doorways, work benches, drinks dispensers, etc. It is advisable in such areas to provide for additional coats of product or specify a higher performance treatment. Once the mixed material has exceeded its pot life the viscosity and the characteristics of the product changes and any unused product should be discarded at this time.

**NOTE:** All ARDEX products are manufactured under strict Quality Assurance procedures, however, it is recommended that where colour consistency is essential, products from one batch should be used whenever possible.

### TOOL CLEANING

ARDEX R 30 E can be removed from tools and equipment by washing in clean water immediately after use. Any hardened coating will need to be removed mechanically.

### PROPERTIES

The values shown are typical of results obtained in the laboratory at 20°C. Actual performance values obtained on site may vary from those quoted.

### PHYSICAL PROPERTIES

#### ARDEX R 30 E @ 20°C

|                    |                               |
|--------------------|-------------------------------|
| Pot life           | 45 mins                       |
| Time between coats | 8-24 hrs                      |
| Foot traffic       | 24 hours                      |
| Full cure          | 7 days                        |
| Dry film thickness | 2 coats 100 microns (approx). |

### CHEMICAL RESISTANCE

Where there are specific chemical resistance requirements, please consult the relevant data sheets for the ARDEX solvent free range of epoxy and polyurethane systems.

### MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of ARDEX R 30 E. It is particularly important in areas that are subject to regular spillage. Spillages should not be allowed to dry as this results in higher concentrations of the materials, which may lead to early failure.

### COVERAGE ESTIMATES

|              | Pack size | Coverage   |
|--------------|-----------|--|
| ARDEX R 30 E | 6kg       | 30-45m <sup>2</sup> per pack per 100 micron coat |

**NOTE:** These coverage figures are theoretical, actual coverage rates will be determined by the nature of substrates and wastage.

### PACKAGING

6kg units of ARDEX R 30 E are supplied in a pre-gauged metal duo container. The hardener (component B) is in the small container and the resin (component A) is in the large container with room to mix in the hardener (component B).

### STORAGE AND SHELF LIFE

ARDEX R 30 E has a shelf life of not less than 12 months if kept in a dry store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

### PRECAUTIONS

ARDEX R 30 E should not come into contact with the skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable gloves, goggles and other protective clothing. The use of barrier creams can provide additional skin protection. When working in confined areas suitable respiratory equipment must be used. In case of contact with skin, rinse with plenty of clean water then wash with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water, then seek medical attention without delay. If swallowed, seek medical attention straight away, do not induce vomiting.

For further information please refer to the relevant health and safety data sheet.

### DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the relevant health and safety data sheet.

**NOTE:** The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.