



ARDEX R 35 E

Two Component Solvent-Free Epoxy Coating

High performance epoxy resin floor coating

The cured resin forms a tough, easily cleaned coating

Hard wearing - durable with low maintenance costs

Resistant to a wide range of chemicals

Provides a high gloss finish in a range of RAL colours

For internal use



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DESCRIPTION

ARDEX R 35 E is a high performance two component, solvent free epoxy resin floor coating for internal applications. It provides a tough, hard wearing, and easily cleaned surface in industrial environments where a degree of higher resistance to chemical attack is required. The cured resin forms a tough, glossy and easily cleaned coating.

RECOMMENDED USES

- Workshops
- Production and processing areas
- Kitchens
- Hospitals, pharmaceutical and other sanitised zones
- Industrial clean-rooms and factories
- Carparks, warehouses, corridors

SURFACE PREPARATION

It is essential that ARDEX R 35 E is applied to sound, clean and dry surfaces to ensure maximum adhesion. ARDEX R 35 E is designed for use as a multilayer coating system or 1mm self-levelling 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. For best results, we recommend using ARDEX CL 5 and ARDEX E 26 self-levelling screed as the substrate. If you plan to use a multilayer coating system of ARDEX R 35 E, surface texture becomes an even more crucial factor to consider.

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. The substrate should be dry with moisture content < 75 % RH and free from rising damp and ground water pressure. If no effective damp proof membrane is present, then ARDEX DPM or WPM 300 can be applied beneath R 35 E system. Use a degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation.

Contaminated and new 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 35 E. Over-watered 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 4 weeks.

PRIMING

Highly porous substrates may be revealed after preparation and will be evident by their rapid absorption. In these cases a priming coat of ARDEX R 2 E primer is advisable before applying the ARDEX R 35 E.

MIXING

The individual components of ARDEX R 35 E (hardener: Part B and resin: Part A) should be thoroughly stirred before being mixed together in a mixing vessel. Mix thoroughly for at least 2 minutes using a mixing drill. 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 1 minute. 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: Once mixed, the ARDEX R 35 E will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk. Spread it out to reduce heat.

APPLICATION

Once mixed, the ARDEX R 35 E can be distributed without delay onto the primed 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. We recommend a second coat within 6–8 hours.

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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 fine aggregate. Following the application of the first coat of ARDEX R 35 E, a scatter of 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 35 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 change 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

Fresh ARDEX R 35 E can be removed from tools and equipment by washing immediately after use with solvent or turpentine. Any hardened coating will need to be removed mechanically.

TECHNICAL DATA

The values shown are typical of results obtained in the laboratory at 25°C. Actual performance values obtained on site may vary from those quoted.

Mixing ratio	4 : 1
Pot Life	40 - 50 minutes
Time between coats	6 - 8 hours
Gel time	2 - 3 hours
Full Traffic	24 hours
Full cure	7 days
Solids	100%
Adhesion Strength	> 5 MPa

CHEMICAL RESISTANCE

ARDEX R 35 E is resistant to a wide range of liquids and chemicals, please consult our technical sales representatives for data sheets for ARDEX range of epoxy and polyurethane system.

COLOURS

Standard colours available in RAL. Please consult our Industrial Flooring colour chart or our technical sales representatives for customized colour requests.

MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of ARDEX R 35 E. It is particularly important in areas that are subject to regular spillage. Spillages should not be allowed to dry as this result in higher concentrations of the materials, which may lead to early failure. Regular cleaning of the surface with a rotary scrubbing machine, in conjunction with a water miscible cleaning agent or hot washing at temperatures up to 50°C is recommended.

THEORETICAL COVERAGE & CONSUMPTION

Multilayer coating system:

For roller application, approx. 200 grams of coating is needed per coat with a thickness of 140 microns. To attain the desired thickness and color consistency, particularly for lighter shades, a minimum of two coats or more is necessary.

1mm self-levelling system:

Approx. 1.4 kg at 1mm thickness.

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NOTE: These coverage figures are theoretical, due to wastage and the variety and nature of substrates practical coverage figures may be reduced. Marking out areas to be covered per pack or for a number of packs provides a method of ensuring correct and uniform coverage.

ARDEX products should be installed by trained applicators to provide a quality flooring system that would deliver high standards of serviceability. Please consult our technical sales representatives for details of our authorised applicators.

PACKAGING

ARDEX R 35 E is available in 20 kg set.

For the 20 kg set, the hardener (component B) is in the 4 kg container and the resin (component A) is in the 16 kg container.

STORAGE AND SHELF LIFE

ARDEX R 35 E has a shelf life of not less than 12 months if kept in a dry, cool place 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.

SAFETY PRECAUTIONS

ARDEX R 35 E should not come into contact with the skin and eyes or to 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, and then seek medical attention without delay. If swallowed, seek medical attention straight away, do not induce vomiting. The Safety Datasheet (SDS) is available upon request and online.

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.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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