



ARDEX R 25 E

Self-Smoothing Epoxy Floor System

Class-leading self-smoothing properties

Seamless - easily cleaned to maintain high standards of hygiene

Resistant to a wide range of chemicals

Hard wearing - durable with low maintenance costs

High gloss finish, available in a range of RAL colours

For internal use



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DESCRIPTION

ARDEX R 25 E is based on a carefully selected solvent-less epoxy resin composition. It is a two-component system with self-leveling Composition to form a very smooth, attractive, hygienic, hardwearing and chemical resistant floor topping. It comes in specially weighed packs applicable for usual thicknesses specified under industrial requirements.

RECOMMENDED USES

- Decorative uses for residential areas
- Food processing and packing areas
- Garages and industrial workshops
- Hospitals, Pharmaceuticals and other sanitized zones
- Industrial clean-rooms and factories
- Retail stores and other commercial spaces

SURFACE PREPARATION

The concrete surface must be cured for min. 28 days, 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. Contaminated concrete surfaces and new concrete should be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar.

Vacuum clean prior to applying ARDEX R 25 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. 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 system can be incorporate beneath R 25 E system to prevent blistering. Use ARDEX DGR degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation.

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

All areas to be treated with ARDEX R 25 E must first be primed with ARDEX R 2 E solvent-free Epoxy Primer. One or more coats of primer may be required depending upon the condition and porosity of the concrete substrate. High porosity substrates may be revealed after preparation and will be evident by their rapid suction and absorption. If in doubt use two coats of ARDEX R 2 E / ARDEX R 3 E. Poorly primed surfaces may lead to blistering or pin holing in the cured resin.

MIXING

The individual components of ARDEX R 25 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 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 be poured back into the larger mixing vessel and re-mixed for 1 minute.

Mixing should continue until a consistent homogenous mix is achieved. One or more packs may be mixed simultaneously to ensure a quick rate of installation. 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, ARDEX R 25 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

The mixed ARDEX R 25 E should be applied to the prepared and primed surface without delay using a trowel or depth set rake to achieve the desired thickness (min. 2 mm).

As soon as ARDEX R 25 E has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix and also to blend out any trowel marks. The work area should be protected during the installation process and during the initial curing time to ensure that no debris can contaminate the surface of the resin, as this will lead to unwanted blemishes in the hardened cured surface.

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LIMITATIONS

The product 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 25 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	30 minutes
Gel time	approx. 6 hours
Light Traffic	48 hours
Full cure	approx. 7 days
Adhesion Strength	> 6 MPa

CHEMICAL RESISTANCE

ARDEX R 25 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 25 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.

COVERAGE

20 kg of ARDEX R 25 E covers approx. 7.5 m² for 2mm thickness.

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 autohosed applicators.

PACKAGING

ARDEX R 25 E is available in 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 25 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.

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PRECAUTIONS

ARDEX R 25 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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