ARDEX R 30 E

Water-based Epoxy Floor and Wall Coating

Low odour, environmental friendly

Cost-effective floor maintenance coating

Available in different colours

For internal use

HACCP Approved

Green product certified material

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001

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DESCRIPTION

ARDEX R 30 E is a two-component water-based epoxy coating for internal use. It does not contain any organic solvent, is odour-free and does not cause fire hazard during application. ARDEX R 30 E is suitable for application over metal and mineral surfaces with ARDEX metal primer. On concrete surfaces, it penetrates deeply into the surface to ensure strong adhesion to the concrete. It can also be used as surface hardener for concrete or screed surfaces to prevent dusting.

RECOMMENDED USES

- Garages and Industrial Workshops
- Retail stores, other commercial spaces
- Semiconductor and electronics industries
- Carparks, warehouses, logistic centres, corridores

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 at 100 micron thickness per coat.

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 can be achieved using ARDEX overlayment topping.

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, ARDEX DPM or WPM 300 system should be installed beneath ARDEX R 30 E system. Use ARDEX 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 scrabbling, 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 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 nished surface. New concrete slabs must be allowed to cure for at least 14 days. For all proprietary products used on 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 in a mixing vessel. Mix the two materials thoroughly for at least 1 minute using a mixing drill. Some of the mixed components should be re-introduced 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: 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.

APPLICATION

Once mixed, the ARDEX R 30 E can be spread without delay onto the primed surface using a brush or short/medium pile roller. Each coat should be applied at 100 microns thickness. Ensure that the entire surface is coated and that 'ponding' of the material does not occur. If a second coat is to be applied, it should be applied typically 12 hours after the laying of the first coat. 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, released from the roller.

SLIP RESISTANT FINISH

Any textured finish with improved slip resistance may be achieved by the use of ARDEX Fine Aggregate.

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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 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

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.

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	approx. 30 minutes
Time between coats	approx. 12 hours
Gel time	approx. 1 hour
Light Traffic	48 hours
Full cure	7 days
Adhesion Strength	> 1.5 MPa (Concrete failure)

CHEMICAL RESISTANCE

Where there are specific chemical resistance requirements, please consult our technical sales representatives for data sheets for ARDEX range of epoxy and polyurethane system.

COLOURS

Please consult our Industrial Flooring colour chart or our technical sales representatives for customized colour requests.

MAINTENANCE

Good house keeping 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 result in higher concentrations of the materials, which may lead to early failure.

COVERAGE

Actual coverage rate depend on the nature of substrates and wastage.
Estimated coverage at 150µ/coat is approx. 5.5m^2/kg.

PACKAGING

ARDEX R 30 E is available in a 5kg or 20 kg set.

STORAGE AND SHELF LIFE

ARDEX R 30 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.

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PRECAUTIONS

ARDEX R 30 E should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapour. Wear suitable gloves, goggles and other protective clothing. The use of barrier creams can provide additional skin protection.When working in conned areas ensure adequate ventilation. In case of contact with skin, rinse with plenty of clean water then wash with soap and water. Do not use solvent. n 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.

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 available online at www.ardex-quicseal.com

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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