



CI/SfB

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PRODUCT DATA SHEET

ARDEX R40E

Solvent Free Epoxy Coating

LIGHT DUTY, EPOXY RESIN FLOOR COATING, SUPPLIED AS TWO COMPONENTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED RESIN FORMS A GLOSS, EASILY CLEANED COATING.

Features

Low viscosity aids application at thin film thicknesses

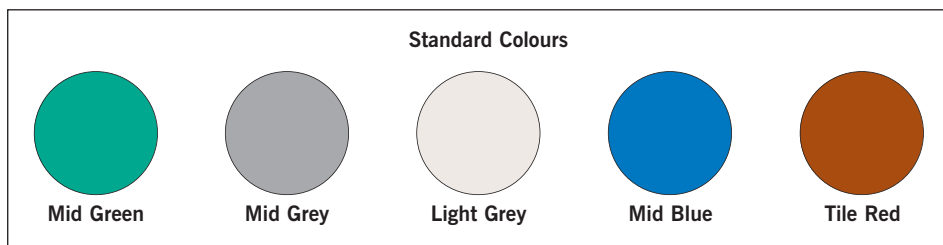
Cost effective, light duty coating

Resistant to a wide range of chemicals and liquids

Easily cleaned

Available in a range of colours

Provides a high gloss finish



Due to printing process, colours can only be approximate



Reg No. FM 1207

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ARDEX R 40 E

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DESCRIPTION

To provide a light duty, gloss, easily cleaned surface in industrial environments where a degree of resistance to chemical attack is required. It is suitable for use in workshops, production warehouses and processing areas. For medium or heavy duty applications where abrasion and impact resistance or high chemical resistance are required, consult the ARDEX Industrial Range brochure for guidance on the appropriate ARDEX product to use.

SURFACE PREPARATION

It is essential that ARDEX R 40 E is applied to sound, clean and dry surfaces to ensure maximum adhesion.

ARDEX R 40 E is designed for use as a thin coat application, typically 100 microns 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 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 grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying ARDEX R 40 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 6 weeks.

MIXING

The individual components of the ARDEX R 40 E should be thoroughly stirred before being mixed together. The entire contents of the hardener container (component B) should be poured into the resin container (component A) 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 and mixed 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 40 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 40 E should be poured directly onto the floor and distributed without delay to 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. 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 40 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 40 E will then encapsulate the fine aggregate.

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

LIMITATIONS

These products should not be applied in 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 ARDEX Industrial Coating.

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 wherever possible.

TOOL CLEANING

ARDEX R 40 E can be removed from tools and equipment 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 40 E	@ 20°C
Pot life	30 mins
Time between coats	8-24 hours
Walkability	24 hours
Full cure	7 days
Dry film thickness	100 microns per coat

CHEMICAL RESISTANCE

ARDEX R 40 E is resistant to a wide range of liquids and chemicals, for specific information please refer to our Technical Services Department.

MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of ARDEX R 40 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. Regular cleaning of the surface with a rotary scrubbing machine, in conjunction with a water miscible cleaning agent or hot water washing at temperatures up to 50°C is recommended.

COVERAGE ESTIMATES

	Pack size	Approximate coverage
ARDEX R 40 E	6kg	25-40m ² per pack per coat

NOTE: These figures are for guidance only. Due to wastage and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

ARDEX R 40 E has a shelf life of 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.

PACKAGING

6kg units of ARDEX R 40 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).

PRECAUTIONS

The hardener, which contains 4,4' - isopropylidenediphenol and amines, is classified as corrosive and the epoxy resin, which contains bisphenol A/F-epichlorhydrin, can be irritating to the eyes and skin, and may cause sensitisation by contact. They are considered harmful in contact with the skin and if swallowed. During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream.

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

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.

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.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.