



CI/SfB

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PRODUCT DATA SHEET

# ARDEX R 25 E

## Self-Smoothing Epoxy Floor System

HIGH PERFORMANCE, EPOXY RESIN FLOORING SYSTEM, SUPPLIED AS THREE COMPONENTS IN A PRE-MEASURED PACK FOR EASE OF ON SITE MIXING AND USE. THE CURED RESINS FORM A PIGMENTED, SMOOTH, TOUGH 2-4MM LAYER, WHICH CAN BE EASILY CLEANED.

### Features

Hard wearing - durable with low maintenance costs

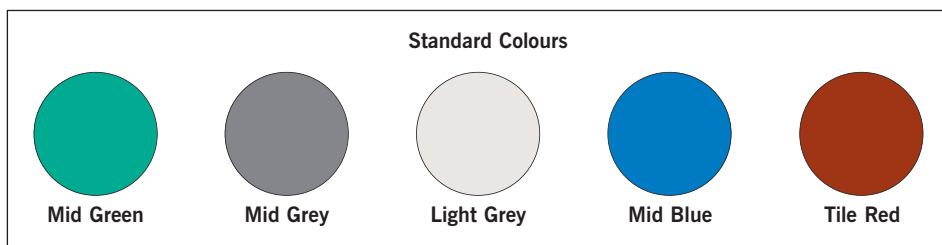
Resistant to a wide range of chemicals and liquids

Seamless - easily cleaned to maintain high standards of hygiene

Available in a range of colours

Self-smoothing properties provide a flat high gloss finish

FeRFA Classification - Type 5



Due to printing process, colours can only be approximate



Reg No. FM 1207

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### DESCRIPTION

A specialist applied, self-smoothing, epoxy resin floor finish, combining outstanding wearing properties with chemical resistance and decorative properties. Ideally suited in areas where a seamless, joint free finish is required and maximum cleanliness is essential. Laboratories, clean rooms, and general light industry are just some of the environments that can benefit from this system.

### SURFACE PREPARATION

It is essential that ARDEX R 25 E is applied to sound, clean and dry surfaces to ensure maximum adhesion.

ARDEX R 25 E is designed for use as a thin coat application.

**NOTE:** Thin coatings will reflect the surface texture of the substrates 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 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 25 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.

### PRIMING

All areas to be treated with ARDEX R 25 E must first be primed with ARDEX R 3 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 3 E. Poorly primed surfaces may lead to blistering or pin holing in the cured resin. Consult the 'Priming, Preparation, Cleaning and Maintenance for ARDEX Industrial Flooring Products' leaflet as appropriate.

### MIXING

The individual components of the ARDEX R 25 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 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 poured back into the larger mixing vessel and re-mixed for 1 minute. The entire mixed contents should be poured into a larger mixing vessel to incorporate the filler component. Mixing of all 3 components 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, the ARDEX R 25 E will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

### APPLICATION

The mixed ARDEX R 25 E material should be applied to the prepared and primed surface without delay using a trowel or depth set rake to achieve the desired thickness. As soon as the 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.

### LIMITATIONS

ARDEX R 25 E should not be applied to floors that are known to have rising moisture or have relative humidity of greater than 75% at the time of application. These products should not be applied in temperatures less than 10°C or where the ambient relative humidity is greater than 85%. Should it be determined that moisture is present in the concrete then the entire surface should be treated with ARDEX DPM mixed and applied in accordance with the recommendations in the ARDEX UK product data sheet. Once the mixed material has exceeded its pot life, the viscosity and the characteristics of the product will change and any unused product should be discarded at this time. Do not steam clean or use hot water above 55°C to wash the surface.

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

### CLEANING

ARDEX R 25 E can be removed from tools and equipment by using ARDEX RTC immediately after use. Any hardened material 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 25 E @ 20°C Approximately

Pot life	30 mins
Initial hardness	24 hours
Full cure	7 days
Compressive strength:	70 N/mm <sup>2</sup>
Flexural strength:	31 N/mm <sup>2</sup>
Tensile strength:	23 N/mm <sup>2</sup>

### CHEMICAL RESISTANCE

ARDEX R 25 E is resistant to a wide range of liquids and chemicals, for specific information please refer to the ARDEX 'Chemical Resistance' chart.

### 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 of chemicals.

Spillages should not be allowed to dry, which results in higher concentrations of the chemicals, 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	Coverage
ARDEX R 25 E	15.9kg	Approximately 4.7m <sup>2</sup> @ 2mm thick

**NOTE:** These figures are theoretical, due to wastage and the variety and nature of substrates practical coverage figures may be reduced.

### PACKAGING

15.9kg units of ARDEX R 25 E consists of a 5.9kg unit, Part A and Part B, 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). 10kg Part C powder component is packed in paper sacks incorporating a polyethylene liner.

### STORAGE AND SHELF LIFE

ARDEX R 25 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.

### PRECAUTIONS

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.

For further information please refer to the product 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.