

ARDEX UK

One source for premium quality industrial flooring products

January 2004



**ANNOUNCING DELIVERY OF
A COMPLETE NEW FAST TRACK
FLOORING RANGE FROM ARDEX**

INDUSTRIAL FLOORING



**PRIMERS
CONCRETE TOPPINGS
EPOXY SYSTEMS
DAMP PROOF MEMBRANE
POLYURETHANE SYSTEMS**

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FeRFA
The Resin Flooring Association

Industrial Flooring Systems from ARDEX

The all new range of industrial flooring products from ARDEX is designed to work together as an integrated system for your peace of mind. Each new product is the result of research and development with the help of industrial flooring contractors to ensure absolute product compatibility and market leading performance. Specify ARDEX industrial flooring products and you know you've chosen the most advanced system solution for polyurethane screeds, epoxy coatings, damp proof membranes, fast track concrete toppings and primers.

Polyurethane Systems



ARDEX R80P Heavy Duty Polyurethane Screed

High performance, polyurethane resin flooring system, supplied as four components in pre-measured packs for ease of on site mixing and use. The cured system forms a tough, easily cleaned, pigmented layer from 4mm up to 12mm thick.

Specialist applied, polyurethane resin floor finish, combining outstanding wearing properties with high chemical resistance and decorative properties. Ideally suited to aggressive areas where a seamless, joint free finish is required and maximum cleanliness is essential. Food processing and storage, abattoir's, drinks production, dairies and general heavy duty plant and traffic areas are just some of the environments that can benefit from this slip resistant system.

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 @ 20°C Approximately

Working life	15 mins
Light traffic	24hrs
Full traffic	48hrs
Full chemical cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	52 N/mm ²
Flexural strength	14 N/mm ²
Tensile strength	6 N/mm ²
Abrasion resistance	Classified 'Special Duty' under BS 8204: Part 2: 2002 (9)
Slip resistance	Classified 'Satisfactory' under BS 8204: Part 2: 2002 (9), wet and dry
Impact resistance	Classified 'High Impact Resistance' under BS 8204: Part 1: 1999

Coverage

A 30.7kg pack of ARDEX R80P Heavy Duty Polyurethane Screed will cover approximately 2.2m² when applied at a thickness of 5mm.

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

Standard Colours

Green, Grey, Orange, Red, Cream, Yellow



ARDEX R70P Medium Duty Polyurethane Screed

High performance, polyurethane resin flooring system, supplied as four components in pre-measured packs for ease of on site mixing and use. The cured system forms a tough, easily cleaned, pigmented layer from 2mm up to 5mm thick.

Specialist applied, polyurethane resin floor finish, combining outstanding wearing properties with high chemical resistance and pleasing decorative properties. Ideally suited in aggressive areas where a seamless, joint free finish is required and maximum cleanliness is essential. Factories and general heavy duty plant and traffic areas are just some of the environments that can benefit from the tough chemically resistant system.

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 @ 20°C Approximately

Working life	15 mins
Light traffic	24hrs
Full traffic	48hrs
Full chemical cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	48 N/mm ²
Flexural strength	20 N/mm ²
Tensile strength	7 N/mm ²
Abrasion resistance	Classified 'Special Duty' under BS 8204: Part 2: 2002 (9)
Slip resistance	Classified 'Satisfactory' under BS 8204: Part 2: 2002 (9), wet and dry
Impact resistance	Classified 'High Impact Resistance' under BS 8204: Part 1: 1999

Coverage

A 20kg pack of ARDEX R70P Medium Duty Polyurethane Screed will cover approximately 4m² when applied at a thickness of 2mm.

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

Standard Colours

Green, Grey, Orange, Red, Cream, Yellow



ARDEX R10P Polyurethane Coving and Wall Render

High performance, polyurethane resin wall and coving system, supplied as four components in pre-measured packs for ease of on site mixing and use. The cured system forms a tough, easily cleaned, pigmented layer from a feather edge up to 12mm thick.

Specialist applied, polyurethane resin, wall and coving finish, combining outstanding wearing properties with high chemical resistance and decorative properties. Ideally suited for aggressive areas where a seamless, joint free finish is required and maximum cleanliness is essential. Food processing and storage, abattoirs, drinks production, dairies and general heavy duty plant and traffic areas are just some of the environments that can benefit from this system.

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 @ 20°C Approximately

Pot life	10 mins
Light use	24hrs
Full use	48hrs
Full chemical cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	45 N/mm ²
Flexural strength	11 N/mm ²
Tensile strength	5 N/mm ²

Coverage

A 13.9kg pack of ARDEX R10P Polyurethane Coving and Wall Render will cover approximately 1.4m² at 5mm thick.

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

Standard Colours

Green, Grey, Orange, Red, Cream, Yellow



ARDEX R25E 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.

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.

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	@ 20°C Approximately
Pot life	30 mins
Initial hardness	24 hours
Full cure	7 days
Compressive strength	70 N/mm ²
Flexural strength	31 N/mm ²
Tensile strength	23 N/mm ²

Coverage

A 15.9kg unit will cover approximately 4.7m² @ 2mm thick. **Note:** These figures are theoretical, due to wastage and the variety and nature of substrates practical coverage figures may be reduced.

Standard Colours

Mid Green, Mid Grey, Light Grey, Mid Blue, Tile Red



ARDEX R30E Water-based Epoxy Coating

To provide an easily cleaned surface, which is resistant to many common oils and liquids with excellent adhesion to concrete and cement/sand screeds. Particularly suitable for floor applications in garages, warehouses, light industry, kitchens and other areas subject to light vehicle and pedestrian traffic. Recommended as the sealer/coating for the Ardit SD-T Industrial Floor System.

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	@ 20°C Approximately
Pot life	45 mins
Time between coats	8-24 hrs
Walkability	24 hours
Full cure	7 days
Dry film thickness	2 coats 100 microns(approx.)

Coverage

A 6kg unit will cover 40-50m² per pack per 100 micron coat. **Note:** These figures are theoretical, due to wastage and the variety and nature of substrates practical coverage figures may be reduced.

Standard Colours

Mid Green, Mid Grey, Light Grey, Mid Blue, Tile Red



ARDEX R35E Solvent-free Epoxy Coating

High performance, 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 tough, easily cleaned coating.

To provide a tough, hard wearing, easily cleaned surface in industrial environments where a degree of higher resistance to chemical attack is required. It is suitable for use in workshops, production and processing areas, dairies, soft drinks and bottling plants, breweries, kitchens and any floor areas subject to wet working and possible chemical spillage.

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	@ 20°C Approximately
Pot life	30 mins
Time between coats	8-24 hrs
Walkability	24 hours
Full cure	7 days
Dry film thickness	200 microns per coat

Coverage

A 6kg unit will cover 20-25m² per pack per coat. **Note:** These figures are theoretical, due to wastage and the variety and nature of substrates practical coverage figures may be reduced.

Standard Colours

Mid Green, Mid Grey, Light Grey, Mid Blue, Tile Red, Safety Yellow

Concrete Toppings



ARDIT SD-T & ARDIT SD-T B Industrial Floor System

When mixed with water, Ardit SD-T produces a fluid self-levelling mortar which can be applied by trowel or pump as a floor finish from 5-12mm in one operation. Where thick Ardit SD-T applications are required the cost effective Ardit SD-T B base mix can be applied from 7-50mm depth to level the concrete base. The 'Rapidry Formula' technology of the Ardit SD-T B base mix means that within only hours of its application a minimum 5mm thickness of Ardit SD-T can be applied. With Ardit SD-T the installer has only to wait as little as 6 hours at 20°C before applying water-based systems such as epoxy paint coatings. Due to the 'Rapidry Formula' chemically binding the mixed water, the Ardit SD-T literally dries within itself at the same time as it rapidly develops strength.

Concrete Toppings

ARDIT SD-T

Coverage

Approximately 1.54kg Ardit SD-T powder/m²/mm, e.g. one 25kg bag will cover approximately 3.25m² at 5mm thick.

Technical Data

Working time at 20°C	approx. 15 minutes
Flow life at 20°C	approx. 10 minutes
Initial Set (Vicat)	approx. 20 minutes
Final Set (Vicat)	approx. 60 minutes

Typical Compressive Strength in accordance with DIN 1164

1 day	15 N/mm ²
7 days	30 N/mm ²
28 days	36 N/mm ²

Tensile Strength

1 day	3 N/mm ²
7 days	5 N/mm ²
28 days	8 N/mm ²

Ball Pressure Hardness

1 day	50 N/mm ²
7 days	55 N/mm ²
28 days	80 N/mm ²

Abrasion Resistance

The abrasion resistance of Ardit SD-T, when measured in accordance with BS 8204, was rated as AR1.

ARDIT SD-T B base mix

Coverage

Approximately 1.87kg Ardit SD-T B base mix powder/m²/mm, e.g. one bag will cover approximately 1.9m² at 7mm thickness.

Technical Data

Weight of fresh mortar	approx. 2.16kg/litre
Working time at 20°C	approx. 20 minutes
Flow life at 20°C	approx. 10 minutes
Initial Set (Vicat)	approx. 1½ hours
Final Set (Vicat)	approx. 2 hours
Compressive Strength (DIN 1164) 28 days	approx. 30 N/mm ²



Damp Proof Membrane



ARDEX DPM Surface Damp Proof Membrane - Residual Moisture Suppressant

ARDEX DPM is a solvent free, low viscosity, two component epoxy resin. After hardening the ARDEX DPM produces a membrane with high inherent strength and excellent bond strength to appropriate substrates including very damp concrete and screeds. ARDEX DPM has excellent resistance to water, grease, oil, aqueous salt solution, dilute mineral and organic acids and organic liquids and solutions. ARDEX DPM is supplied in two colours, red for the first coat and green for the second coat, as a visual aid to application, thickness and coverage.

Technical Data

Mixing ratio	Component A : Component B - 2:1 by weight.
Density at 20°C	1.18
Working time (20°C)	20 minutes
Over Coating (20°C)	8 hours
Walkability (20°C)	6-8 hours

Coverage

Approximately 4m²/kg e.g. one 6kg unit will cover approximately 24m²

Packaging

Available in 6kg and 3kg tins.

Ancillaries



ARDEX R8P

Polyurethane Tack Coat is a two component 'tack' coat specifically formulated for use with ARDEX R10P Coving and Wall Render. ARDEX R8P Polyurethane Tack Coat provides excellent adhesion and is suitable for use on concrete, brick and blockwork etc. Where surfaces are very porous, the first coat of ARDEX R8P Polyurethane Tack Coat must be left to cure before applying the subsequent layer. Vertical surfaces must be of a rigid construction to resist deflection during the application process.

Physical Properties

Pot life	20 minutes @ 20°C
Open time	8 hours @ 20°C

Coverage

A 2.4kg unit will cover approximately 8-12m² depending on the porosity of the background.



ARDEX Degreaser

This is a liquid which is highly effective in removing grease, wax, etc., reducing these contaminants to a water dispersible consistency. It is used for cleaning surfaces that are contaminated with wax, grease, oil, etc., prior to mechanical preparation. May be used on damp surfaces and is also useful for cleaning paint brushes, machinery etc.

Coverage

36 to 45 square meters per 4.5 litres (undiluted).



ARDEX R3E

Solvent Free Epoxy Primer is a two component solvent free epoxy resin for use with ARDEX polyurethane screeds and self-smoothing epoxy floor coatings. Blind with ARDEX Fine Aggregate and use as a primer prior to applying thick applications of the Ardit SD-T Industrial Floor System, or other appropriate ARDEX cement-based products.

Coverage

Approximately 24m² per 6kg unit. **Note:** The above coverage figures will vary depending on the texture and absorbency of the substrate.



ARDEX Tool Cleaner

Highly effective low toxicity, biodegradable, high flash point liquid cleaner for tools and equipment that have been used for the mixing and application of ARDEX resin-based systems. **Note:** For maximum effect, use before the resin has cured.

Packaging

High density polyethylene containers of 25kg and 5kg.



ARDION 51

Priming Agent is a water-based emulsion primer for use in the preparation of internal surfaces prior to the application of Ardit SD-T.

Coverage

5kg Ardion 51 diluted with 3 volumes of water is sufficient for priming approximately 100 square metres. 5kg Ardion 51 diluted with an equal volume of water is sufficient for priming approximately 35 square metres. **Note:** The above coverage figures will vary depending on the texture and absorbency of the substrate.

Packaging and Storage

High density polyethylene containers of 25kg, 5kg and 1kg. Protect from frost and direct sunlight.



HIGH PERFORMANCE
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