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# ARDEX R 100 E

## Heavy Duty Epoxy Screed System

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Heavy Duty - exceptional resistance against high impact and mechanical loads

Abrasion resistant - provides a tough floor topping to withstand heavy and continuous vehicular traffic

Serviceability - long service life

Resistant to a wide range of chemicals and liquids

Slip resistant - safe non slip finish for foot and vehicular traffic

Suitable for coving to ensure a truly seamless floor



**ARDEX-QUICSEAL SINGAPORE PTE. LTD.**  
26 Tuas Ave 4 Singapore 639376  
Telephone: +65 6861 7700  
Fax: +65 6741 4666  
Email: [sales@ardex-quicseal.com](mailto:sales@ardex-quicseal.com)  
Website: [www.ardex-quicseal.com](http://www.ardex-quicseal.com)

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### DESCRIPTION

ARDEX R 100 E is a three component high performance, solvent-free epoxy flooring system, specifically developed for a wide range of application.

It is an epoxy screed blinder system which forms an anti-slip, tough, hygienic, abrasion and chemical resistant floor topping of exceptional mechanical strength.

### APPLICATIONS

ARDEX R 100 E can be applied onto concrete or cement screed surface to provide a seamless topping.

Typical application areas:

- Food and beverage industrial areas
- Multi-level car parks, loading bays
- Motor work shop
- Warehouses
- Chemical processing plant

### FEATURES & BENEFITS

- High compressive strength
- Excellent bonding strength
- Good resistant to abrasion
- Ease of application
- Solvent-free
- Slip-resistant

### SUBSTRATE PREPARATION

All surfaces must be clean, sound and free from any laitance, oil, grease and any of contaminants. All form oil, grease, wax, curing compound and contaminations must be removed by using industrial detergent follow by scrubbing. The concrete surface must be shot-blast, scarifying or grit blasting followed by vacuum cleaning. The substrate should be dry to 75% RH and free from rising damp and ground water pressure.

If no effective damp proof membrane is present, then ARDEX DPM or ARDEX WPM 300 can be used.

### PRIMING

All areas to be treated with ARDEX R 100 E must first be primed with ARDEX R 2 E / ARDEX R 3 E solvent-free epoxy primer.

### MIXING

Use a pan mixer to mix ARDEX R 100 E.

Mix one unit of Part A and one Part B evenly, slowly

adding the filler Part C. Continue to stir until a 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.

**CAUTION:** Once mixed, the ARDEX R 100 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 100 E should be applied to the prepared and primed surface when it is still wet, without delay using a trowel or power floating machine to achieve required thickness and compaction. Additional sealer coats are optional and depend on the degree of cleanliness required. 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 surface.

### ARDEX R 100 E SEALER COAT

Use ARDEX R 100 E Part A and B and mix with ARDEX R 100 E Sealer Additive.

#### Dosage:

One 180g bag of ARDEX R 100 E Sealer Additive per 3 kg set of ARDEX 100 E Part A and B.

#### Coverage:

Approx. 3 - 4m<sup>2</sup> per kg of ARDEX 100 E Sealer Coat.

#### Application:

Mix ARDEX R 100 E Part A and Part B evenly and add ARDEX R 100 E Sealer Additive to the mix and stir thoroughly. Then, apply the sealer coat onto the epoxy mortar surface only when the epoxy mortar is dry.

### ARDEX R 100 E STONE BINDER

Use ARDEX R 100 E Part A and B and mix with the pebble stones.

#### Dosage:

ARDEX R 100 E Binder: 1kg

Pebble stones: 15 – 20kg

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An additional coat of ARDEX R 100 E Binder at an approximate coverage of 0.4kg/m<sup>2</sup> over the blinded pebbles is highly recommended.

### Coverage:

Approx. 1.0 - 1.2m<sup>2</sup> per kg of ARDEX R 100 E Binder.

### Application:

Mix ARDEX R 100 E Part A and Part B evenly and add the pebble stones to the mix and stir thoroughly. Then, apply the treated pebbles onto the cleaned and dried substrate.

### ARDEX R 100 E COLOUR QUARTZ BINDER

Mix ARDEX R 100 E Part A and Part B with colour quartz.

Recommended mixing dosage for a 4 mm thickness per m<sup>2</sup>:

ARDEX R 100 E Binder: 1 kg

Colour quartz: 8 kg

Apply an additional topcoat over the colour quartz using ARDEX R 160 P. Apply 1–2 coats of ARDEX R 160 P Clear Matt Finish, with an estimated coverage of approximately 0.25 – 0.5 kg per m<sup>2</sup>.

For application, spread the colour quartz with a rubber squeegee and back-roll to finish.

### LIMITATIONS

These products should not be applied at temperatures less than 10°C or where the ambient relative humidity is greater than 85%. 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.

ARDEX R 100E Stone Binder coating tends to yellow when exposed to ultra-violet light when used outdoors and may affect the tone of the white or pale colored pebbles.

### TECHNICAL DATA

Pot Life @25°C:	45 - 50 minutes
Initial cure:	6 hours
Full traffic:	24 hours
Solid content:	100%

Mixed SG:	approx. 2.0 to 2.1
Tensile Adhesion Strength:	> 1.5 N/mm <sup>2</sup>
Compressive Strength:	> 65 N/mm <sup>2</sup>

### CHEMICAL RESISTANCE

ARDEX R 100 E is resistant to a wide range of liquids and chemicals, please consult our technical sales representatives for full details.

### MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of ARDEX R 100 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 washing at temperatures up to 50° C is recommended.

### PACKAGING

#### Heavy Duty Epoxy Screed system

ARDEX R 100 E set of 33kg consists of:  
Part A: 2kg, Part B: 1kg and Part C: 30kg.

ARDEX R 100 E Stone Binder is available in 10 kg set.

### COVERAGE

A general guide is approx. 3.3m<sup>2</sup> per 33kg set @ thickness 5mm.

### CLEANING

Clean the tools and equipment immediately after use with thinner. Hardened material can be removed mechanically.

### STORAGE AND SHELF LIFE

ARDEX R 100 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.

### SAFETY PRECAUTIONS

ARDEX R 100 E contains certain chemicals which can cause skin irritation if exposed and respiratory reaction if inhaled. The product should not come into contact with the skin and eyes or to be swallowed.

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Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable gloves, goggles and other protective clothing. In case of contact with skin, rinse with plenty of clean water then wash with soap and water. 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 at [www.ardex-quicseal.com](http://www.ardex-quicseal.com).

### DISCLAIMER

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Thailand:  
ARDEX (THAILAND) CO., LTD  
969 2nd Floor, Moo 13, Soi 45, Bangna-Trad Road  
Bangkaew, Bangplee, Samutprakarn 10540 Thailand  
Telephone: +66 2316 3069 Fax:+66 2316 3075  
Email: [sales@ardex.co.th](mailto:sales@ardex.co.th)  
Website: [www.ardex.co.th](http://www.ardex.co.th)

Vietnam:  
Mobile: +84 901 351 308  
Email: [sales@ardex-quicseal.com](mailto:sales@ardex-quicseal.com)

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Offices:

Malaysia:  
ARDEX QUICSEAL MALAYSIA SDN. BHD.  
72-2, Jalan Puteri 2/2 Bandar Puteri 47100,  
Puchong, Selangor Darul Ehsan  
Malaysia  
Phone: +603 8051 0311  
Email: [sales.malaysia@ardex-quicseal.com](mailto:sales.malaysia@ardex-quicseal.com)