



# R 100 CE

## Heavy duty epoxy floor screed

### DESCRIPTION

R 100 CE is a three component, solvent-free epoxy screed applied between 3 - 10 mm thickness. The finished floor exhibits outstanding wearing properties along with excellent slip and chemical resistance.

### USES

- Heavy engineering industries
- Chemical manufacturing units
- Oil refineries
- Wet process areas
- Sugar, food and beverage production
- Warehouses and storage areas
- Textile industry
- Laboratories and clean rooms
- Pharmaceutical manufacturing

### FEATURES

- Hard wearing, durable with low maintenance cost
- Resistance to wide range of chemicals
- Seamless : easily cleaned to maintain high standards of hygiene
- Excellent slip resistance to foot traffic
- Good abrasion resistance

### PHYSICAL PROPERTIES

R 100 CE	27 ± 1°C
Mixed Density	2.10 g/cc
Pot life	45 mins
Application thickness	3 - 10 mm
Foot traffic	24 hours
Full cure	7 days
Bond strength	> 3 N/mm <sup>2</sup>
Compressive strength ASTM C 109	> 90 N/mm <sup>2</sup>
Flexural strength BS 6319, Pt 3	> 30 N/mm <sup>2</sup>
Tensile strength BS 6319, Pt 7	> 17 N/mm <sup>2</sup>
Abrasion resistance ASTM C501	0.45g/1000 cycles

### CHEMICAL RESISTANCE

R 100 CE is resistant to wide range of liquids and chemicals like most dilute acids (acetic, oleic, citric, hydrochloric, nitric and sulphuric acid), milk, animal fats and vegetable oils, sugars flavourings, essences, mineral oils, kerosene, petrol, mineral spirit, brake fluids, detergents etc. Chemical spillages should always be wiped up as quickly as possible and not be allowed to concentrate up by evaporation.

The data on the list of the chemicals found resistant to this product during our lab study is available on request.

### COVERAGE ESTIMATES

Pack size	Coverage
16.50 kg	Approx. 1.60m <sup>2</sup> @
Part A 1.3 kg	5mm thick
Part B 500 g	
Part C 14.70 kg	

### APPLICATION INSTRUCTIONS

#### Surface Preparation

Note: The substrate should have a surface tensile strength of at least 1.5 N/mm<sup>2</sup>.

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.

Contaminated concrete surfaces should be mechanically prepared, either by scrubbing, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to application of the primer. 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.

All cracks, potholes and construction joints shall be treated prior to the application of primer.

**Note:** Any joints 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 must first be primed with R 3 E primer. Two or more coats of primer may be required depending upon the condition and the porosity of the concrete substrate. Ensure that the primer is tacky prior to application of R 100 CE.

#### Mixing

The individual contents Part A & Part B should be thoroughly stirred before being mixed together. The entire contents of Part A and Part B should be poured in to a larger mixing vessel to incorporate the Part C. Mix thoroughly with a suitable mixing paddle. Finally the Part C is added to the same container. The mixing of all the three should continue until a consistent mix is achieved. One or more packs may be mixed simultaneously to ensure a quick rate of installation subject to work force & site clearance.

#### Application

The mixed material should be applied to the prepared and primed tacky surface, using a flat trowel to achieve the desired thickness. As soon as the product has been laid and as work

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progress, the work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened, cured surface.

All movement joints in the sub-floor must be carried through the topping and properly sealed. Construction joints and cracks not subject to movement may be overlaid but should the floor move in any way, these defects will reflect through the system. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

### Note:

- R 100 CE should only be applied at temperature above 10°C and where the atmospheric relative humidity (RH) is 85% or below. R 100 CE should not be applied to floors that are known to have rising moisture. For floors with an RH of more than 75%, the entire floor area should be treated with effective suitable damp proof membrane.
- 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 50°C to wash the surface.

### Sealing

Areas subjected to chemical and oil spillage and maximum cleanliness is required, R 100 CE can be coated with R 30 CE (water based epoxy coating) after 24 hours.

### CLEANING

R 100 CE can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

### STORAGE AND SHELF LIFE

R 100 CE has a shelf life of 12 months if kept in a dry, clean 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

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. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based 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.

### DISPOSAL/SPILLAGE

Spillage of any of the product components should be absorbed onto sand or other inert materials 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 Material Safety Data Sheet.

### CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

### NOTE

The information supplied in this datasheet is based upon extensive experience and 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.



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