



R 3 E

Moisture tolerant epoxy primer

DESCRIPTION

R 3 E is a solvent-free, two-component moisture tolerant epoxy primer for use on concrete and cementitious surfaces that have damp surfaces (e.g. from water spillages or rain) prior to installing polyurethane and epoxy floor systems. It can also be used as a primer for cementitious floor systems by blinding with fine aggregates.

FEATURES

- Multipurpose: can be used with cement, epoxy and polyurethane based flooring systems
- Seals the substrate porosity
- Solvent free
- Low viscosity: penetrates into the concrete substrate for a better bond
- Supplied in pre-measured packs for ease of mixing and consistency at site

PHYSICAL PROPERTIES

R 3 E @ 27± 1°C

Mixed density	approx. 1.07 g/cc
Working time	20 mins
Drying Times	
Initial Cure	24 hours
Recoat time	over night
Full Cure	7 days
Bond strength	> 1.5 N/mm ²
VOC Content	7 g/L

COVERAGE ESTIMATES

Pack size	Coverage
5 kg	Approx. 20 - 24 m ² /coat
Part A 3.125 kg	
Part B 1.875 kg	

APPLICATION INSTRUCTIONS

Substrate Preparation

The concrete or screed substrate 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 a suitable degreaser 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 R 3 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 and suitably sealed. New concrete slabs must be allowed to cure for at least 14 days.

Mixing

The individual contents of the R 3 E should be thoroughly stirred before being mixed together. The entire contents Part B should be poured into Part 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 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.

Application

Once mixed, the material should be spread over the floor as self-heating in the container will reduce working time. Apply using a brush or short/medium pile roller. One or more coats may be needed to ensure that a uniform coating is achieved and to compensate for differences in surface porosity.

LIMITATIONS

The product should not be applied in temperatures less than 10°C or where the ambient relative humidity is greater than 85%.

CLEANING

R 3 E can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically

STORAGE & SHELF LIFE

R 3 E 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.

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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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