

R 30 CE

Water based epoxy floor and wall coating

DESCRIPTION

R 30 CE is a two component, pigmented, water based epoxy coating which improves the chemical and mechanical properties when applied onto cementitious and concrete surfaces. It provides a dustproof, easily cleanable surface which is also resistant to penetration of oils and liquids. The cured film forms a waterproof barrier and is non-toxic.

R 30 CE is an ideal choice for floor and wall protection in wet process industries, where a dry substrate may be difficult or impossible to obtain. It can also be used as a final coating and sealer for epoxy floor screeds for improved durability.

USES

- Laboratories & clean rooms
- Food & beverage processing (walls & floors)
- Dairies (walls & floors)
- Pharmaceutical manufacturing
- Warehouses and storage areas (walls)
- Washing & changing rooms (walls)
- Industrial & commercial kitchens (walls)
- Light vehicle and pedestrian traffic.

FEATURES

- Solvent free, non tainting: suitable for use in food industry
- Moisture tolerant
- Water vapour permeable
- Excellent adhesion to cementitious substrates
- Seamless: dustproof, easily cleanable to maintain high standards of hygiene
- Supplied in pre-measured packs for ease of mixing and consistency at site
- Available in any standard RAL colours

PHYSICAL PROPERTIES

R 30 CE	@ 27 ± 1°C
Mixed density	approx. 1.30 g/cc
Pot life	30 mins
Recoat interval	8 - 24 hours
Bond strength	> 1.5 N/mm ²
Drying Times	
Foot Traffic	24 hours
Full cure	7 days
Wet film thickness	approx. 75 - 100 microns/coat
Dry film thickness	approx. 100 microns
VOC Content	21 g/l

COVERAGE ESTIMATES

Pack size	Coverage
4.60 kg	Approx. 30 m ² /coat/pack
Part A 3.60 kg	
Part B 1 kg	

APPLICATION INSTRUCTIONS

Installation of R 30 CE should be carried out only by an approved applicator of ARDEX ENDURA.

Surface Preparation

Note: The substrate should have a surface tensile strength of at least 1.5 N/mm².

The substrate must be hard, sound, free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, oil, grease, wax, polish etc., that will inhibit adhesion.

R 30 CE can be applied to a clean, dry or damp by not wet substrate.

Mixing

The individual contents of R 30 CE should be thoroughly stirred before being mixed together. The entire contents of Part B should be poured into the Part A container and the two materials are mixed thoroughly for at least 2 minutes using a heavy duty slow speed drill with 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 remixed 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.

Note: Once mixed, the R 30 CE will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

Application

Once mixed the R 30 CE should be applied without delay to the prepared surface using a brush or short/medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material on floors does not occur.

A second coat is applied as soon as the first coat has dried (typically 8 - 24 hours) depending upon the condition of the surface and the ambient temperature). Provision for ventilation and air movement will be required. When using new rollers, ensure that all loose fibres are removed prior to use, any loose fibres released from the roller will cause unsightly blemishes in the finished coating.

Slip Resistant Finish

A fine textured finish with improved slip resistance may be achieved by the use of R 130 C Type 3 aggregates. Following the application of the first coat of R 30 CE, broadcast R 130 C @ 0.6 -

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1.0kg/m² (depending on the area/location of use) onto the wet coating to seed the surface. After initial cure, the excess aggregates should be removed by brushing or vacuuming. The second coat of R 30 CE will then encapsulate the aggregates. Depending on the surface profile and quantity of R 130 C used, the second coat may consume more material than the first coat to achieve a fully sealed surface.

LIMITATIONS

The product should not be applied in temperatures less than 10°C or where the ambient relative humidity is greater than 85%. Note: The rate of wear of this coating will be increased in areas of concentrated foot and vehicle traffic, in particular, doorways, work benches, drinks dispensers etc. It is advisable in such areas to provide for additional coats product or specify a higher performance treatment.

CLEANING

R 30 CE can be removed from tools and equipment by using water immediately after use. Any hardened material will need to be removed mechanically.

MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of R 30 CE. 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.

STORAGE AND SHELF LIFE

R 30 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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