

R 34 CE

Non-toxic epoxy coating for floors & walls

DESCRIPTION

R 34 CE is a two component, non-toxic epoxy protective coating for use on cementitious & concrete surfaces. It provides a tough, hard wearing surface resistant to oil, chemical attack and bacterial growth. R 34 CE is solvent free and available in both pigmented & non-pigmented versions.

USES

Can be used on on floor, wall and ceiling of:

- Production and processing areas
- Dairies
- Soft drinks and bottling plants
- Breweries

FEATURES

- Resistance to a range of chemicals and liquids
- Provides a glossy finish
- Suitable for concrete and mild steel substrates
- Easily cleanable to maintain high standards of hygiene
- Does not support growth of bacteria and fungus
- Odour: easy to apply
- Food grade: CFTRI approved; conforms to the specifications as per U.S FDA 175.300
- Supplied in pre-measured packs for ease of mixing and consistency at site
- Available in any standard RAL colours and non-pigmented version for on-site blending of colour

PHYSICAL PROPERTIES

R 34 CE	@ 27 ± 1°C
Mixed Density	1.68 g/cc
Pot life	30 minutes
Time between coats	16 - 18 hours
Drying Times	
Walkability	24 hours
Full cure	7 days
Bond strength	> 1.5 N/mm ²
Tensile strength	> 12 N/mm ²
Shore D hardness	> 70
Water absorption	Nil
Abrasion Resistance (ASTM D4060)	~ 0.12g loss/1000Cycles (1kg load using CS17 Wheels)
VOC	333 g/l

COVERAGE ESTIMATES

Pack size	Coverage
7 kg	Approx. 40 m ² /coat/kit @
Part A 5.95 kg	100 microns
Part B 1.05 kg	

CHEMICAL RESISTANCE

R 34 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.

APPLICATION INSTRUCTIONS

Installation of R 34 CE should be carried out 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. New concrete slabs must be allowed to cure for at least 28 days.

The surface must be hard, dry, 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, preferably either by grinding or light contained shot blasting equipment or similar, and be vacuumed clean prior to applying R 34 CE. 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.

The ideal substrate for application is a flat, lightly textured, clean concrete surface. Surface irregularities must be ground down or filled out with ARDEX ENDURA range of repair materials.

Mixing

The individual contents of the R 34 CE should be thoroughly stirred before being mixed together. The entire contents of 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 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 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.

Note: Once mixed, the R 34 CE will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

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Application

Once mixed the R 34 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 16 - 18 hours) depending upon the condition of the surface and the ambient temperature. 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.

Note: R 34 CE should not be applied in temperatures less than 10°C or where the ambient relative humidity is greater than 85%

CLEANING

R 34 CE can be removed from tools and equipment by using RTC 100 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 34 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 is recommended. Do not steam clean or use hot water above 55°C to wash the surface.

STORAGE AND SHELF LIFE

R 34 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.



ARDEX ENDURA (INDIA) PRIVATE LIMITED

an ISO 9001:2015 & ISO 14001:2015 certified company
Corporate Office & Regd. Office: Unit No. 406 & 407,
"Brigade Rubix" No. 20, HMT Campus,
Yeshwanthpur Hobli, Bengaluru - 560013.
CIN No: U24233KA1997PTC022383 Tel: +91 80 66746500
Email: customercare@ardexendura.com
Website: www.ardexendura.com

Branches

• AHMEDABAD	+919228019132	• GUWAHATI	+917896002188	• MUMBAI	022 65133299
• AURANGABAD	+918605445577	• HUBBALLI	0836 2970505	• MYSURU	0821 2570171
• BENGALURU	+919972922333	• HYDERABAD	+919703250099	• NAGPUR	+919822223743
• BHUBANESHWAR	0674 2578101	• INDORE	0731 4021148	• PUNE	+919881249292
• CALICUT	0495 2740334	• JAIPUR	0141 2392993	• RAIPUR	0771 4038300
• CHENNAI	044 42805544	• KOLKATA	+919831071084	• SALEM	0427 2211454
• DELHI	+919811810923	• LUCKNOW	0522 4043251	• TRIVANDRUM	0471 2598648
• ERNAKULAM	0484 2341044	• LUDHIANA	0161 2532170	• VIJAYAWADA	+918688354587
• GOA	0832 2750992	• MANGALURU	0824 2442176	• VISAKAPATNAM	0891 6469499