

R 25 CE

High gloss, self-smoothing epoxy floor finish (1 - 4 mm)

DESCRIPTION

R 25 CE is a high gloss, self-smoothing, epoxy resin floor finish applied between 1 - 4 mm thickness. It combines outstanding wearing properties with chemical resistance and decorative finish. Ideally suited in situations where a seamless, joint free finish is required and maximum cleanliness is essential.

USES

R 25 CE is suitable for environments that can benefit from the tough chemically resistant system. Typical areas such as

- Laboratories & clean rooms
- Food and beverage production
- Pharmaceutical manufacturing
- Warehouses and storage areas
- Automotive manufacturing
- Printing plants
- General medium to heavy industry

FEATURES

- Seamless: easily cleanable to maintain high standards of hygiene
- Does not support growth of bacteria and fungus
- Self-smoothing: provides a flat high gloss finish
- Tough & Hard wearing: durable with low maintenance cost
- Resistant to a wide range of chemicals and liquids
- 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

PHYSICAL PROPERTIES

R 25 CE @ 27 ± 1°C

Mixed Density	1.64 g/cc
Pot life	30 minutes
Initial hardness	24 hours
Full cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	70 N/mm ²
Flexural strength	> 30 N/mm ²
Tensile strength	20 N/mm ²
Shore D Hardness	> 70

CHEMICAL RESISTANCE CHART

Chemical	Concentration in %	Result
Acetic acid	10	R
Acetic acid	50	N
Acetone	100	N
Ammonia	30	R
Beer	100	R
Citric acid	50	R
Coffee	100	R
Diesel	100	R
Formic Acid	50	N
Guava Juice	100	R
Hydrochloric acid	35	L
Hydrochloric acid	25	R
Hydrogen peroxide	20	R
Kerosene	100	R
Lactic Acid	25	R
Lemon solution	100	R
Mango Juice	100	R
Methanol	100	N
Milk	100	R
Nitric acid	30	R
Nitric acid	50	N
Oleic Acid	100	R
Orange juice	100	R
Papaya Juice	100	R
Petrol	100	R
Pomegranate Juice	100	R
Red wine	100	R
Sabeena solution	100	R
Sambar	100	R
Saturated salt solution	100	R
Saturated sugar solution	100	L
Sodium Hydroxide	50	R
Sodium Hypo chlorite	15	R
Sulphuric acid	25	R
Tea	100	R

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Tomato Juice	100	R
Vegetable oil	100	R
waste oil	100	R
Xylene	100	L

Resistant	R
Limited Resistance	L
Not Resistant	N

Resistant : Subject to reasonable standards of housekeeping.

Limited Resistance : Occasional spillage tolerated, if the floor is washed down immediately.

Not Resistant : Rapid & severe attack even by small spillages.

NOTE: Discoloration is not classified as chemical attack/Resistance, if hardness is unchanged

COVERAGE ESTIMATES

Pack size	Coverage
16 kg	Approximately 4.9 m ² @ 2 mm thick
Part A 3.80 kg	
Part B 1.70 kg	
Part C 10 kg	
Part D 500 g	

APPLICATION INSTRUCTIONS

Installation of R 25 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 concrete 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 to the substrate.

New concrete floors must be allowed to cure for at least 28 days and shall have an effective damp-proof membrane below to prevent rising dampness. Contaminated concrete surfaces should be mechanically prepared, by grinding, scarification, shot blasting or similar methods and be vacuum cleaned prior to installing R 25 CE. Overwatered or otherwise weak concrete surfaces must be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

Note: Any joints in the base e.g. movement joints, should be brought through to the finished surface and suitably sealed.

Priming

All areas to be treated with R 2 CE / R 3 E / R 9 CE must be first primed with a suitable epoxy primer from the ARDEX ENDURA range. Selection of the primer must be made depending on the substrate condition & porosity. Please refer to the individual primer data sheets for further details.

One or more coats of the primer may be required depending upon the condition and porosity of the concrete substrate. High porosity substrates may be revealed after preparation and will be evident by their rapid suction and absorption. Poorly primed surfaces may lead to blistering or pin holing in the cured resin.

Mixing

The individual contents of R 25 CE should be thoroughly stirred before being mixed together. Mix Part D with Part A and ensure smooth mixing. The entire contents should be poured in to a larger mixing vessel to incorporate Part B and Part C. The materials are mixed thoroughly with a spiral mixing paddle in a slow speed drill for 3 minutes until a consistent homogenous mix is achieved. One or more packs may be mixed simultaneously to ensure a quick rate of installation.

Note: Once mixed, the R 25 CE will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

Application

The mixed R 25 CE material should be applied to the prepared and primed surface without delay using a trowel or depth set rake to achieve the desired thickness. As soon as the R 25 CE has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix and also to blend out any trowel marks. 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, as this will lead to unwanted blemishes in the hardened, cured surface.

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 25 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 25 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 25 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

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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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