



R 625 CE

Antistatic Epoxy

HIGH PERFORMANCE, ANTISTATIC, CONDUCTIVE SELF-SMOOTHENING,
EPOXY FLOORING SYSTEM

Features

Electrostatically Conductive

Excellent Chemical, Mechanical and Abrasion Resistance

Seamless- easily cleaned to maintain high standards of hygiene

Hard wearing and durable with low maintenance costs

Solvent free

Microelectronic industry grade conductivity $10^4 - 10^6 \Omega$

STANDARD COLOURS

Available to any standard RAL Card upon request

Indian Green Building Council
M E M B E R

ARDEX ENDURA (INDIA) PRIVATE LIMITED

Corporate Office & Regd. Office:
Unit No. 406 & 407, "Brigade Rubix", No. 20,
HMT Campus, Yeshwanthapur Hobli,
Bengaluru - 560013. Karnataka, INDIA.
CIN No: U24233KA1997PTC022383
Tel: +91 80 66746500
Fax: +91 80 66746540
Email: customercare@ardexendura.com
Visit us: www.ardexendura.com

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DESCRIPTION

R 625 CE is seamless, self-smoothing, solvent free, conductive epoxy flooring system with excellent conductive properties. The cured conductive epoxy flooring exhibits an attractive joint free finish with chemical resistance and decorative properties. Suitable in industries such as Electronic & Telecommunication, Automotive, Pharmaceutical, Aerospace, Operation Theaters, Computer rooms, etc.

SURFACE PREPARATION

Good substrate preparation is essential for optimum performance. The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, and 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 scrubbing, scarifying, grinding or shot blasting equipment or similar, and be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

NOTE: All construction joints, cracks and potholes shall be treated prior to the primer application 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 28 days. The maximum moisture content of the substrate should be <4% measured by an accurate moisture meter.

R 625 CE Primer

R 625 CE Primer is supplied in two contents Part A & Part B. Before applying R 625 CE Primer, prime the surface with minimum two coats of ARDEX ENDURA R 3 E Solvent Free Epoxy Primer. All areas to be treated with R 625 CE must first be primed with R 625 CE Primer.

A minimum of two coats of R 625 CE Primer is required. Poorly primed surface may lead to blistering, pinholing and more importantly the conductive values get affected. Use a mechanical mixer and mix the two parts of the R 625 CE Primer for one minute so that it forms a homogeneous mix. Do not over mix as it will result in air entrainment and also the mixed material may get heated up.

Apply R 625 CE Primer by roller on the ARDEX ENDURA R 3 E Solvent Free Epoxy Primer on the Primed surface. Apply 2 coats of R 625 CE Primer to get a total thickness of 175 - 200 microns in 2 coats. Time interval between the two coats should be 6 - 8 hours

depending on temperature & humidity.

After application of first coat place self adhesive copper tape of 12 - 20mm width and 70 - 100 micron thick at the periphery of the primed surface.

R 625 CE Top Coat

After 24 hours of R 625 CE Primer application, the R 625 CE Top Coat has to be applied. The R 625 CE Top Coat comprises of Part A, Part B & Part C. The individual contents should be thoroughly stirred before being mixed together. Initially the entire contents of the Part A should be poured into a larger mixing vessel to incorporate Part B and mix thoroughly. Then add Part C into the mixed Part A & Part B. The three parts should be mixed for at least 2 minutes with a spiral mixing paddle using a slow speed mechanical mixer at a speed of 300 - 400 rpm. The mixing should continue until a consistent, uniform colour and homogenous mix is achieved. Do not over mix as it will result to an increase in the resistance of the floor and may no longer comply with the specification for antistatic floors along with issues like air entrainment and also the mixed material may get heated up which will eventually reduce the pot life. R 625 CE Top Coat should be applied to the prepared and primed surface without delay using a trowel or depth set rake to achieve the desired thickness of 1.5 - 2.0mm.

As soon as the R 625 CE Top Coat has been laid and as work progresses, the surface should be gently rolled with a spike roller in order to release any entrapped air from the mix also to blend out any trowel marks. R 625 CE is self curing and the work area should be protected during the installation process and during the initial curing time for at least 24 hours, to ensure that no debris, insects, dust, spillage can contaminate the surface of the R 625 CE Top Coat, as this will lead to unwanted blemishes in the hardened, cured surface.

LIMITATIONS

R 625 CE should not be applied to floors that are known to have rising moisture or have relative humidity of greater than 75% at the time of application. These products should not be applied in temperatures less than 10°C. 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 55°C to wash the surface.

NOTE: All products are manufactured under strict Quality Assurance procedures; however it is recommended that wherever colour consistency is essential, products from one batch should be used as much as possible.

CLEANING

R 625 CE can be removed from tools and equipment by using ARDEX ENDURA RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES

The values shown are typical of results obtained in the laboratory at 27 ± 1°C. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R 625 CE Primer @ 27 ± 1°C	
Colour	Black
Pot life	60 mins
Mixed Density	1.02 - 1.06 gm/cc
Mixing Ratio	Part A : Part B 4 1

R 625 CE Top Coat

Pot life	30 minutes
Mixed Density	1.60 - 1.65 gm/cc
Foot Traffic	24 Hours
Full Cure	7 days
Surface resistance, Ohms	10 ⁴ ~ 10 ⁵ Ω
Shore D Hardness after 7 days	> 70
Bond Strength after 7 days	2.5 N/mm ²
Tensile Strength BS 6319, Part - 7	> 16.00 N/mm ²
Flexural Strength BS 6319, Part - 3	> 39.00 N/mm ²
Compressive Strength after 7 days	> 50.00 N/mm ²

COVERAGE ESTIMATES

Pack size	Coverage
R 625 CE Primer	
2.250 kg Part A 1.80kg Part B 450g	Approximately 9m ² /coat
R 625 CE Top Coat	
14 kg Part A 4.30kg Part B 1.69kg Part C 8.01kg	Approximately 4.0m ² @ 2 mm thickness

NOTE: These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

CHEMICAL RESISTANCE

R 625 CE is resistant to a wide range of liquids and chemicals, for specific information please refer to the following ARDEX ENDURA "Chemical Resistance" chart.

CHEMICAL RESISTANCE CHART - SUMMARY OF RESULTS

Reagent	Concentration in %	R 625 CE
Acetic acid	10	R
Acetic acid	50	N
Acetone	100	N
Ammonia	10	R
Ammonia	35	L
Beer	100	R
Citric acid	50	R
Formic acid	50	N
Hydrochloric acid	25	R
Hydrogen Peroxide	20vol	R
Kerosine	100	R
Lactic acid	25	R
Methylated Spirit	100	N
Milk	100	R
Nitric acid	30	R
Nitric acid	70	N
Oleic acid	100	R
Orange Juice	100	R
Petrol	100	R
Phosphoric acid	10	R
Red Wine	100	R
Salt	Saturated	R
Sodium hydroxide	50	R
Sodium hyperchlorite	15	R
Sugar	Saturated	L
Sulphuric acid	10	R
Sulphuric acid	25	R
Sulphuric acid	75	R
Xylene	100	L

Resistant	R	28 Days +
Limited Resistance	L	up to 7 Days
Not Resistant	N	
Short Term Resistance	S	up to 1 Day

Note: These results are based on immersion testing and ARDEX ENDURA products may appear less resistant when compared with other manufacturer's surface swab test results.

COLOURS

R 625 CE is available to any standard RAL Card upon request.

STORAGE AND SHELF LIFE

R 625 CE store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 12 months when stored as above.

MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of R 625 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.

PRECAUTIONS

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 (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection is 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 component products 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 Product 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.