

Seire

SEIREPOX R CONDUCTIVO **AntiStatic epoxy paint**

100% solid

AntiStatic coloured finish coat

High surface and transverse conductivity

Solvent-free

Easy application

Smooth or non-slip finish

Clean and easy to maintain

High chemical and mechanical resistance

Good adhesion

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SEIREPOX R CONDUCTIVO

AntiStatic epoxy paint

Product description:

SEIREPOX R CONDUCTIVO is a two component, coloured, solventfree epoxy paint used to execute AntiStatic flooring with smooth or antislip finish; it is easy to clean, waterproof, and provides high mechanical and chemical performance and easy maintenance and repair/repainting.

By choosing the suitable application system, SEIREPOX R CONDUCTIVO allows the execution of AntiStatic finish from dissipative to conductive (surface and/or transverse). The colour range is limited.

Field of application:

Coloured, thin-layer flooring with conductive character (resistivity 104 - 106 Ohm) or dissipative (resistivity 106 - 109 Ohm) in:

- Operating Theatres
- Laboratories
- Warehouses and storage areas for explosive or flammable products
- Robotic Areas
- Rooms with highly sensitive electronic or IT equipment
- Manufacture of electronic components
- Clean rooms
- Repair / repainting of old conductive flooring.

Substrate Preparation:

The substrate must have a tensile strength of more than 1.5 N/mm², must be dry (residual humidity less than 4%), hard, sound and free of laitance, grease, dust or other loose particles such as paint, release agents, limescale, mortar, plaster, adhesive residues, etc., which may impair adhesion to the substrate.

Prepare substrate using specialist machinery; sanding, milling or diamond tools depending on the state of the substrate. Vacuum the substrate.

Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example expansion joints).

To prepare metal substrates, sandblasting to Sa 2½ grade is recommended. After sandblasting, the surface must be cleaned using a proper solvent. Ensure solvent is completely dried off before applying primer coat.

Primer:

Apply SEIREPOX R CONDUCTIVO directly on the substrate, on a primed substrate or on an existing substrate that has been properly prepared.

When required, prime the substrates using the primer in our portfolio best fitting substrate and application conditions.

Do not allow the primer to dry longer than indicated in its technical sheet - otherwise, it will need to be sanded and re-primed.

Mixing:

Stir the individual components of SEIREPOX R CONDUCTIVO before mixing.

Pour the content of component B into the container of component A and thoroughly mix the two liquid components with a stirrer at low speed for a minimum of 3 minutes.

Part of the mixture can be reintroduced into the hardener container to gather up residues remaining in the container. The mixture which has been introduced into the hardener container can then be returned to the mixing container and stirred for a further 30 seconds. This mixing process ensures the product's consistency and that any residual resin remaining in the containers reacts, facilitating subsequent management of residues.

It is not advisable to carry out partial mixtures by volume.

After the two components are mixed, 1kg of SEIREPOX R CONDUCTIVO remains workable for 30 minutes at a temperature between 18°C and 20°C. If the pot life is exceeded the mixed product loses its characteristics and should be discarded.

Recommendations:

After mixing the two components of SEIREPOX R CONDUCTIVO, use immediately. Towards the end of the mixture's useful life and due to its high level of reactivity, the mixture will heat up, resulting in a sharp decline in its Pot-Life. The heat increases in proportion to the amount of resin remaining in the container.

In these cases (high temperature), do not touch the drum. In case of fumes, cover with the lid, but do not close, and, using the handle, place somewhere cool and well ventilated or somewhere outdoors to prevent the accumulation of gases.

Note that higher temperatures shorten time of use and lower temperatures lengthen it.

All SEIRE products are manufactured subject to rigorous quality controls and procedures; however, if strict colour consistency is required, you are advised to use products taken from the same batch.

Limitations:

Do not use SEIREPOX R CONDUCTIVO where ambient and/or substrate temperatures are less than 10°C or less than 3°C above the dew point.

Do not use where ambient and/or substrate temperatures exceed 30°C or where ambient humidity exceeds 85%.

Because of the colour tone of the base, the colour range is limited.

Maximum recommended thickness 500 dry microns.

Conductivity values are achieved after a minimum curing time of three days.

Because of the epoxy nature of the material, applications might yellow when exposed to UV light.

Method of application:

Once components A and B have been mixed together, apply material to properly prepared substrate, using a brush or short or medium-nap roller. As an alternative method, spread the mix over the floor using a rubber squeegee and complete the application (to remove blemishes) with a medium nap roller.

Ensure the entire surface is completely and evenly painted without pools.

The second layer should be applied as soon as the first is sufficiently cured. The curing time varies depending on environmental conditions. Allow at least 16 hours (at 20°C) between coats. If 48 hours is allowed to elapse, sanding will be required.

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To execute an AntiStatic finish with high conductivity (surface and transverse) two choices are available:

1. SEIREPOX R CONDUCTIVO direct onto the substrate (only in the case it is already conductive like concrete or old conductive system).

2. Classic system with standard primer / earthed copper grid / SEIREPOX IMPRIMACIÓN CONDUCTIVO and topcoat with SEIREPOX R CONDUCTIVO. Consult Seire Technical Department how to keep the copper strip fully covered.

When a dissipative finish is the target, SEIREPOX R CONDUCTIVO will be applied onto a substrate previously primed with a standard non-conductive epoxy primer.

To prepare anti-slip finishes, consult Seire Technical Department.

If viscosity is too high for application due to low temperature, a solvent like xylene can be added (maximum 2%).

Consumption:

Approx. 250g/m² per coat

Cleaning of tools and equipment:

SEIREPOX R CONDUCTIVO can be cleaned immediately after use with a solvent such as ARDEX RTC. If the product is allowed to harden, it will have to be removed mechanically.

Residues/spillages:

Any spillage from any of the components must be removed immediately with sand, vermiculite or other inert material and collected in a suitable container for proper handling and treatment.

Residues from spillage and empty containers must be dealt with in accordance with local regulations.

See product safety sheet for further information.

Storage:

SEIREPOX R CONDUCTIVO can be stored for up to 6 months in its original unopened packaging. The product should be stored in a dry place between +5°C and +30°C. Keep away from icy conditions, direct sunlight and heat sources.

Precautions:

Causes irritation to eyes and skin, depending on sensitivity.

Hazardous to health if swallowed.

May cause burns in case of prolonged exposure. Avoid contact with eyes and skin. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.

Wear safety goggles and gloves while mixing and during application.

If applying indoors, ensure that the site is well ventilated.

Once dry, the product is physiologically and ecologically neutral.

See product safety sheet for further information.

Technical Data According to ARDEX Quality Standards

Mixing ratio	: As indicated on packaging
Denisty	: Approx. 1,4 kg/l
Consumption	: Approx. 250 g/m ² /layer
Workability time (20°C)	: Approx. 30 minutes
Recoatable (20°C)	: Approx. 16 hours
Chemical Resistance	: After 7 days
Resistivity (EN 61340-4-1)	: <500kΩ
Packaging	: Kit of 25 kg
Storage	: Approx. 6 months in a dry place and in original unopened packaging.



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