

1. Product Description

StenCoat® 2EP CC is a two-component epoxy-based conductive coating. It can be used as an intermediate or top coat material for seamless conductive or antistatic coatings. It has high surface and volume conductivity and can be used as a charge dissipator.

It is resistant to moisture, fuels, oils, inorganic acids and diluted bases. **StenCoat® 2EP CC** prevents dusting and wetting and increases the surface's resistance to water.

2. Uses

StenCoat® 2EP CC is used to create a floor that will not allow the accumulation of static electricity in factory floors, fuel storage facilities and areas where flammable gases are processed, filled or stored, in areas where explosive materials are manufactured or stored, and in areas where sensitive electronic materials are produced, transported or stored. It is preferred in areas where high-thickness antistatic coatings are needed or where static electricity discharge must be very fast. **StenCoat® 2EP CC** can also be used as a paint on metal surfaces.

Static charge buildup in the paint poses a threat to occupational safety, especially during painting operations in areas where flammable and explosive gases are present, such as inside fuel tanks. Using a conductive paint ensures that charges are transmitted to ground as soon as they reach the surface.

3. Surface Preparation

Application surfaces must be clean and dry. Surface temperature must not exceed 40 °C. In applications where static electricity will be grounded and on metal surfaces, conductive primer **StenAst® 2EP CC** is used.

StenAst® 2EP should be used for seamless floor systems where static electricity will be dissipated, on porous surfaces such as concrete. The time periods specified in the user manual of the primer used must be observed.

4. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During application, surface and air temperature must be at least 10 °C and the temperature must not drop below 10 °C for 24 hours following the application. **StenCoat® 2EP CC** is prepared for the application by mixing two components.

The components are packaged so that one container of each yields the correct mixing ratio. In cases where one complete package cannot be used, the package must be weighed and proportioned; the mix ratio stated on the package must be observed. Component B is poured into the container containing component A and the two components are mixed for 3-4 minutes at 300-500 rpm until they become homogeneous.

Avoid entraining air into the mixture. The mixed material should be poured into another container and transferred to application area; pouring directly on to the application surface from the mixing pot should be avoided. Mixed material must be used within the pot life.

Material that has begun to thicken must not be diluted for reuse. **StenCoat® 2EP CC** is applied by notched trowel or roller. The application is carried out in one or two coats, with 700-1500 g per m² per coat.

Antistatic Epoxy Coating

Highlights

- High conductivity
- Self-leveling
- Solvent-free
- Suitable for thick coatings
- Important for occupational safety in areas containing flammable and explosive materials such as fuel tanks
- Easy to clean
- Long-lasting



For conductive and antistatic floor applications, after one coat is applied, it is recommended to place the copper reinforcement on the material while it is still liquid, and to apply the second coat onto this system after 2-8 hours. Ground resistance and surface resistance measurements must be made at least 7 days after the system is installed.

5. Cleaning

Equipment used can be cleaned with **StenSolver EP** at the end of the job.

6. Safety

Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

7. Storage

Storage temperature must be between 5 and 30 °C. Packages must not be exposed to direct sunlight. Under these conditions, the material will retain its properties in unopened containers for 12 months from the production date.

Low temperatures may cause crystallization of the product; in this case, the product can be used after heating and homogenizing at +20 °C. The product must be stirred thoroughly before use after prolonged storage.

8. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended application and for all conditions of transport, storage, handling, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.



9. Technical Data

Property	Method	Result
Base Polymer		Epoxy
Solid Content		100
Color		Catalog
Density		1.49 ± 0.05 g/cm ³
Application Thickness (per coat)		700-1500 µm
Antistatic Behaviour	EN 1081	Class II (10 ⁶ -10 ⁹ Ω)
Electrical Resistance (between electrodes, 90 cm)	IEC 61340-4-1	< 5 × 10 ⁶ Ω
Electrical Resistance (to ground)	IEC 61340-4-1	< 5 × 10 ⁵ Ω
Adhesion Strength	EN 1542 (on concrete)	> 2 MPa
Abrasion Resistance	ASTM D 4060 CS17/1000 rev/1 kg	626 mg
Impact Resistance	ASTM D 2794, 1 meter, 2 kg	> 200 kg·cm (No Damage)
Pot Life @20 °C	EN ISO 9514	45 ± 15 minutes
Tack-free Time @20 °C		2 hours
Full Cure Time		3 days
Cure Time for Chemical Resistance		7 days
Shelf Life		1 year
Packaging		20 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time. *CE: CE marked in accordance with EN 1504-2 (DoP STN-PRC-2EPCC-0001).*

