StenAst® 2EP HC

1. Product Description

StenAst® 2EP HC is a two-component, epoxy-based conductive primer. It can be applied under epoxy-based floor coatings and paints. It is designed to form a continuous conductive layer between the grounding tape and the topcoat under conductive or antistatic coatings. This prevents topcoat defects such as breaks and cracks, or loss of contact in equipment connected to the grounding line, from creating unprotected areas in the coating. It is resistant to moisture, fuels, oils, inorganic acids and diluted bases. Its grounding resistance is below 500,000 Ω, placing it in the conductive class (Class I), and it is suitable for explosive/flammable (ATEX) environments.

Epoxy-Based High-Conductivity Primer

Highlights

- High conductivity for antistatic floors
- Can be used in places where static electricity accumulation may occur
- Improves workplace safety in flammable/explosive areas
- Can be used as a paint primer on metal surfaces
- Semi-flowable
- Two-component, solvent-free epoxy
- Conductive floor — for explosive and flammable (ATEX) atmospheres; grounding resistance < 500,000 Ω

2. Uses

StenAst® 2EP HC is used with **StenCoat® 2EP HC** on factory floors, in fuel storage facilities, and in areas where flammable gases, explosive materials or sensitive electronic materials are processed, manufactured, handled or stored to create a floor that prevents static-electricity buildup. Its semi-flowable consistency makes it suitable for horizontal, sloped and vertical applications. **StenAst® 2EP HC** can also be used as a paint primer on metal surfaces.

Static charge buildup in the paint poses a risk 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 primer ensures that the charges are transmitted to the ground as soon as they reach the surface.

3. Application

3.1. Surface Preparation

Application surfaces must be clean and dry. Surface temperature must not exceed 40 °C. The material itself is used as the primer on metal surfaces and in applications where static electricity must be grounded.

Direct application of the conductive primer onto a porous substrate is not recommended. For applications on porous substrates such as concrete, **StenAst® 2EP** must first be used as the primer, and the conductive primer applied over this layer. The time periods specified in the user manual of the primer used must be observed.

3.2. 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. **StenAst® 2EP HC** is ready for application when components A and B are mixed.

The components are packaged so that one container of each yields the correct mixing ratio. In cases where a complete package will not be used, the package must be weighed and proportioned; the mix ratio stated on the package must be observed. Component A is first mixed for 1-2 minutes until homogeneous. 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. Manual mixing is not sufficient. Mixed material must be used within the pot life, and thickened material must not be thinned and reused.

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StenAst® 2EP HC is applied with a notched trowel or roller. The application is carried out in one or two coats, with 150-300 g per m^2 per coat. For conductive and antistatic floor applications, after one coat is applied, it is recommended to place the copper tape on the material while it is still liquid, and to apply the second coat onto this system after 2-8 hours. Grounding resistance and surface resistance measurements must be made at least 7 days after the system is installed.

3.3. Cleaning

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

4. Safety

Applicators and supervisors must read the Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be disposed of in compliance with relevant regulations and laws. Adequate ventilation must be ensured in enclosed areas.

The application must be carried out by skilled workers under the supervision of experts and the applicators must use all personal protective equipment required for the worksite and the task such as goggles, mask and gloves.

5. 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 being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

6. Disclaimer

This document is provided for general information and is based on **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information without prior 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 purpose and for all conditions of transport, storage, application, 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.

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7. Technical Data

Property	Method	Result
Base Polymer		Two-Component Epoxy
Solids Content (by weight)		100%
Color		Catalog
Application Thickness (per coat)		250-300 µm
Density		1.37 ± 0.05 g/cm^3
Final Hardness (Shore D)	EN ISO 868	D70
Antistatic Behavior	EN 1081	Class I (10^4-10^6 Ω)
Electrical Resistance (between electrodes, 90 cm)	IEC 61340-4-1	< 5 × 10^5 Ω
Electrical Resistance (to ground)	IEC 61340-4-1	< 5 × 10^5 Ω
Adhesion Strength	EN 1542 (on concrete)	> 2 MPa
Pot Life @20 °C		30 minutes
Tack-free Time @20 °C		2 hours
Full Cure Time		3 days
Shelf Life		1 year
Packaging		15 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time.

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