

## 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 grounding reinforcement and the top coat under conductive or antistatic coatings.

This prevents errors that may occur in the top coat, such as breakage and cracking, or any loss of contact in equipment connected to the ground line, from causing insulating areas in the coating. It is resistant to moisture, fuels, oils, inorganic acids and diluted bases.

## 2. Uses

**StenAst® 2EP HC** is used together with **StenCoat® 2EP HC** 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. Thanks to its semi-flowable consistency, it is suitable for horizontal, sloped, vertical and overhead applications. **StenAst® 2EP HC** can also be used as a paint primer 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 primer ensures that the charges are transmitted to the 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. The material itself is used as the primer on metal surfaces and in applications where static electricity must be grounded.

In seamless floor systems designed to dissipate static electricity, **StenAst® S** should be used. For applications on porous substrates such as concrete, **StenAst® 2EP** should be used. 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. **StenAst® 2EP HC** 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. Then component B is added into the container of component A and they are mixed for 3-4 minutes at 300-500 rpm.

Mixed material must be used within the pot life, and thickened material must not be thinned and reused. **StenAst® 2EP HC** is applied by notched trowel or roller. The application is carried out in one or two coats, with 150-300 g per m<sup>2</sup>

## Epoxy-Based High-Conductivity Primer

### Highlights

- High conductivity for antistatic floors
- Can be used in places where static electricity accumulation may occur
- Improves work safety in flammable/explosive areas
- Can be used as a paint primer on metal surfaces
- Semi-flowable
- Two-component, solvent-free epoxy



per coat.

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. Adequate ventilation must be ensured in enclosed areas.

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                                      |                       | Two-Component Epoxy                          |
| Solid Content                                     |                       | 100                                          |
| Color                                             |                       | Catalog                                      |
| Application Thickness (per coat)                  |                       | 250-300 µm                                   |
| Density                                           |                       | 1.37 ± 0.05 g/cm <sup>3</sup>                |
| Final Hardness (Shore D)                          | EN ISO 48-4           | 70                                           |
| Antistatic Behaviour                              | EN 1081               | Class I (10 <sup>4</sup> -10 <sup>6</sup> Ω) |
| Electrical Resistance (between electrodes, 90 cm) | IEC 61340-4-1         | < 5 × 10 <sup>5</sup> Ω                      |
| Electrical Resistance (to ground)                 | IEC 61340-4-1         | < 5 × 10 <sup>5</sup> 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.

