

1. Product Description

StenAst® 2EP is a two-component, solvent-free epoxy primer for all **Stenkim®** brand polymer-based surface coatings, top coats and joint sealants. Thanks to its specially designed hardener, it has excellent wetting properties and adhesion. With these properties, it is an excellent primer, surface hardener and dust inhibitor.

2. Uses

StenAst® 2EP penetrates deep into concrete and helps prevent water and moisture migration into the top coat, reducing the risk of delamination and dusting over time. **StenAst® 2EP** is a two-component, solvent-free, epoxy-based primer designed for topcoats, mortars, and sealants such as StenCoat®, StenSeal®, StenSport®, and StenCare®, especially on concrete, asphalt, steel, wood, epoxy, and polyurethane surfaces. It is a suitable primer for asphalt and concrete outdoor pavements where polyurethane surface coatings such as StenCoat® or StenSport® will be applied.

It enhances the adhesion of polymer-modified cementitious materials applied to old concrete for repair or coating purposes. It is also used to fill microcracks in concrete surfaces and to act as a surface hardener and dust inhibitor for concrete pavements.

3. Surface Preparation

3.1. Concrete Surfaces

Surface must be free from loose materials, oil, grease, paint and the concrete must be dry. This is especially important if a polyurethane material will be applied to the primed surface. Relative humidity measured by hygrometer must be less than 75%; absolute humidity must be less than 3%.

Surface moisture is not a problem where the product is used to ensure adhesion between old and new concrete. Surface contaminants must be removed by sandblasting or mechanical abrasion. Contaminants that have penetrated into the concrete must be removed using cleaners capable of dissolving the contaminant, followed by detergent and water cleaning.

In cases where there is suspicion that the contamination is not removed, it is recommended to conduct an adhesion test before coating.

3.2. Steel Surfaces

Steel surfaces must be sandblasted and cleaned of all contamination, rust, and residues of previous coatings. The sandblasted surface must be primed as soon as possible.

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.

General Purpose Epoxy Primer and Surface Protector

Highlights

- Provides excellent adhesion for top coats
- Fills microcracks on concrete surface
- Forms a waterproof layer
- Prevents dusting on concrete surfaces
- Strong primer
- Two-component, solvent-free epoxy



4.1. Mixing

StenAst® 2EP is prepared for the application by mixing two components. Component A of **StenAst® 2EP** is first mixed for 2-3 minutes on its own. Component B is poured into the vortex formed while mixing component A in its container and the mixture is mixed for 2-3 minutes more at low speed.

A low speed drill is used for mixing. There must be no unmixed material left on the walls or at the bottom of the container.

4.2. Application

Then the mixture is transferred to a paint tray and applied continuously by working it into the floor with a brush or roller. If necessary, while the primer is still wet, dry aggregate of medium or coarse size can be sprinkled on it to create a non-slip, granular coating. It can be used to repair wide cracks in the application area by mixing with a certain amount of quartz sand.

Manual mixing of the components is insufficient. Insufficient mixing may cause the material to cure partially or not at all. Do not keep the material in its container after mixing.

This significantly shortens the pot life. Approximately 200-300 µm is applied in each coat. Accordingly, the approximate consumption is 0.2-0.5 kg/m² per coat.

StenAst® 2EP is applied by brush or roller in one or two coats depending on the texture of the surface on which it is applied. The pot life of **StenAst® 2EP** and the required time before the next coat can be applied are as specified in the table. At this stage, the surface temperature is important.

It should be taken into account that the surface temperature may be higher than the ambient temperature in summer and lower in winter. During application, the surface temperature must be above 10 °C. If the primer application will be carried out as two coats, the second coat must be applied before the first coat is fully cured, while it is still tacky.

If the second coat is applied too late, intercoat adhesion may be adversely affected.

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	EN ISO 3251	100
Color		Milky
Density	EN ISO 2811-2	1.15 ± 0.03 g/cm ³
Application Thickness		250-350 µm
Full Cure Time		5-7 days
Components		2 (A: Resin, B: Hardener)
Coverage		400 g/m ²
Mix Ratio (A:B)		100:46
Overcoat Time (20 °C)		12 hours - 1 day
Viscosity		1100 ± 220 cP
VOC		solvent-free
Pot Life @20 °C		30 ± 15 minutes
Shelf Life		1 year
Packaging		15 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-SA2EP-0002).*

