

StenAst[®] SI

1. Product Profile

StenAst[®] SI, is a single component, silane based surface conditioner, prepared for all **Stenkim[®]** brand polymer based surface coating materials, top coats and joint sealants.

StenAst[®] SI is available in **2.5 kg** packages.

2. Uses

StenAst[®] SI is a single component, silane based surface conditioner, prepared for polyurethane materials such as **StenFloor[®]**, **StenCoat[®]**, **StenSeal[®]**, **StenSport[®]**, **StenCare[®]** to be applied especially on concrete, wooden, fiberglass surfaces. Unlike the film forming primers, it forms a few molecules thick layer. It reacts at one end of with the application surface and at the other end with the material and chemically strengthens adhesion. Therefore it ensures adhesion without forming a third layer between the surface and the material.

StenAst[®] SI is applied by means of brush or roller in one or two layers depending on the porosity and texture of the application surface.

StenAst[®] SI is very compatible with newly cut joint applications on concrete pavements. Since it does not stain when smeared outside the joint, it does not change the appearance. Due to short curing time, it allows fast application. It is not recommended in dusty environments and in cases where old joint sealant will be removed and a new one will be applied. In such environments layer forming primers like **StenAst[®] PU** provides better results than surface conditioners like **StenAst[®] SI**.

3. Surface Preparation

Concrete Surfaces: Surface must be free from loose materials, oil, grease, paint and the concrete must be dry. Contaminants

General Purpose, Single Component, Surface Conditioner

Highlights

StenAst[®] SI

- It is silane based and single component.
- It is an excellent surface conditioner for asphalt and concrete substrates for final coating applications.
- It does not form a film layer in contrast to polyurethane and epoxy primers.
- It enhances adhesion chemically.
- It is very compatible with newly cut joints.
- It does not stain when smeared out of the joint / application area.
- Short application time for the top coating enables fast work, saves work force and time.
- It can be applied via brush and roller.
- It is transparent.

stuck on the surface must be removed by sandblasting or mechanical abrading. Contaminants penetrated into the concrete must be wiped with chemicals that can

StenAst® S-I

dissolve the contaminant and must be cleaned with detergent and water.

Asphalt Surfaces: As the sealants expected to bond to the aggregates surfaces the joints should be newly cut and must be free from loose materials, oil, grease, paint and the must be dry.

Note: Detailed information on surface preparation is provided in “Application Techniques: Surface Preparation” document.

4. Application

StenAst® S-I must not be applied at temperatures below 5°C. Sufficient amount of **StenAst® S-I** is taken to the application container and it is continuously applied on the surface using a brush or roller. It is enough to wet the surface. 15 to 25 m² area can be covered with a liter of **StenAst® S-I** depending on the surface texture of the concrete pavement and application conditions.

When used for joints, it must be applied on the joint before the backer rod is placed inside. Otherwise it can damage the backer rod since it contains high amount of solvent. Sufficient ventilation must be provided during applications for the same reasons.

5. Application Tools

Brush and Roller: Rollers and brushes to be used must be of professional quality. Brushes must be made of medium dense natural hair.

6. Cleaning

Mixing and application tools must be cleaned with a solvent right after being used. **StenSolver CL** can be used for this purpose.

7. Warnings

- **StenAst® S-I** does not leave any marks when cured; it does not form a visible film layer like other types of primer. This situation requires the applicators to be careful in identifying the application area.
- Since it contains high amount of solvent, it must not be considered for cleaning purposes. Contact with skin must be avoided.

8. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. Emptied packages must be handled in compliance with relevant regulations and laws.

9. Storage

Storage temperature must be between 5°C and 30°C. The packages must not be exposed to direct sunlight. Stored unopened in these conditions, the shelf life is 12 months.

10. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by **Stenkim®** and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All **Stenkim®** products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by **Stenkim®**.

Stenkim® reserves the right to update all information contained in this document without notice.

StenAst[®] SI

Technical Data

Property	Result
Base Polymer	Silane
Solvent	Isopropyl alcohol
Density	0.79±0.05g/ cm ³
Application Thickness, at each Layer	At nano level
Color	Transparent
Minimum Curing Time for Top Layer @23°C	15 minutes
Maximum Curing Time for Top Layer @23°C	24 hours

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