

1. Product Description

StenAst® PU is a single-component polyurethane-based primer material prepared for polymer surface coating materials, top coats and joint sealants branded **Stenkim®**.

2. Uses

StenAst® PU is a single-component polyurethane-based primer material prepared for polyurethane materials such as StenCoat®, StenSeal®, StenSport®, StenCare® to be applied particularly on concrete, steel, wood, epoxy, polyurethane and similar surfaces. With its crack-bridging properties, it prevents the reflection of shrinkage cracks in concrete to the top coating. **StenAst® PU** is applied by brush or roller in one or two coats depending on the texture of the surface on which it is applied.

3. Surface Preparation

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.

3.1. 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. **StenAst® PU** is poured into a paint tray and applied continuously with brush or roller, working the material into the floor.

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. **StenAst® PU** is applied by brush or roller in one or two coats depending on the texture of the surface on which it is applied. 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 applied too early, volatilization becomes difficult and can have unwanted effects in subsequent coatings. If the second coat is applied too late, intercoat adhesion may be adversely affected. **StenAst® PU** should not be applied in cold conditions below 10 °C.

Single-Component, Elastic Polyurethane Primer

Highlights

- Polyurethane-based, single-component
- Provides excellent adhesion for top coat applications on concrete, steel, wood, epoxy and polyurethane surfaces
- Crack bridging structure prevents reflection of shrinkage and micro cracks from concrete to the top coating
- Can be applied with brush and roller



5. Cleaning

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

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.

Packages to be used must be conditioned at 20-30 °C for a few days before application. 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		Polyurethane
Solid Content (by weight)		49%
Density		0.96 ± 0.05 g/cm ³
Consumption		60-150 g/m ²
Tack-free Time		90-120 minutes
Adhesion Strength		5.11 MPa (concrete failure)
Shelf Life		1 year
Packaging		2.5 kg sets

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

