

1. Product Description

StenAst® PU is a single-component polyurethane-based primer material prepared for **Stenkim®**-brand polymer surface coatings, topcoats and joint sealants.

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 shrinkage cracks in the concrete from telegraphing through to the topcoat. **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. Application

3.1. Surface Preparation

The surface must be free from contaminants such as loose material, oil, grease and 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%; the absolute moisture content must be less than 3%.

Surface moisture is not a problem where the product is used to ensure adhesion between old and new concrete. Contaminants adhering to the surface must be removed by sandblasting or grinding. Contaminants that have penetrated into the concrete must be removed using cleaners capable of dissolving the contaminant, followed by cleaning with detergent and water. In areas where complete removal of contamination is uncertain, it is recommended to conduct an adhesion test before coating.

3.1.1. Steel Surfaces

Steel surfaces must be sandblasted and cleaned of all contamination, rust, and residues of previous coatings. The sandblasted surface must be primed without delay.

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® 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 will have unwanted effects in subsequent coatings. If the second coat is applied too late, intercoat adhesion may be adversely affected. **StenAst® PU** must not be applied in cold conditions below 10 °C.

3.3. Cleaning

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

Single-Component, Elastic Polyurethane Primer

Highlights

- Provides good adhesion for topcoat applications on concrete, steel, wood, epoxy and polyurethane surfaces
- Bridges cracks, preventing shrinkage cracks and microcracks in the concrete from telegraphing through to the topcoat
- Can be applied with a brush and roller



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. 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.

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 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.

7. Technical Data

Property	Method	Result
Base Polymer		Polyurethane
Solids 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.

