

1. Product Description

StenSport® BINDER PU is a polyurethane-based, single-component, solvent-free, moisture-curing binder manufactured for sports fields, designed to bond rubber and EPDM granules together to form an in-situ shock-absorbing elastic layer. **StenSport® BINDER PU** can also be used to bond the mats and boards used in seamless floor applications to the substrate. It is resistant to chemicals, physical stresses, and minor floor movements.

2. Uses

StenSport® BINDER PU is used as a binder to form in-situ shock-absorbing elastic layers by bonding rubber and EPDM granules in outdoor synthetic athletics tracks and indoor field applications. The resulting porous elastic layer serves as an impact-absorbing base layer for synthetic sports floors and playgrounds. It is used for bonding thermal and sound insulation plates, rubber coatings, wood parquet flooring and laminated panels to all types of substrates and to each other. It is suitable for areas with underfloor heating.

3. Application

3.1. Surface Preparation

Proper surface preparation is of great importance. Both the bonding surface and the surface of the material being bonded must be dry, clean and free of grease. During application, the ambient, substrate, and material temperature must be between 15-30 °C.

The relative humidity of the substrate must not exceed 75%. Detailed information on surface preparation is provided in the "Surface Preparation" document.

3.2. Primer

If **StenSport® BINDER PU** is to be used for bonding rubber mats to concrete, it is advisable to prime the concrete surface with moisture-resistant **StenAst® 2EP**. No primer is required in upper-floor indoor areas where moisture is not present. Primer use is especially important in outdoor applications.

When primer is applied, the surface must be protected from contaminants and dust until the next layer is applied. In other normal applications, such as parquet, carpet, and PVC bonding work, primer is generally not required. An appropriate primer must be selected-based on special conditions if they apply.

3.3. Application

Different application methods are used depending on the location and purpose of application. When bonding substrate/mat and surface/plate, the material is applied with a brush to one or both surfaces, then the surfaces are pressed together to create adhesion. Hardening of the adhesive occurs through atmospheric moisture, so the permeability of the surfaces affects the hardening time.

Adhesive for Granules and Mats on Indoor and Outdoor Sports Fields

Highlights

- Solvent-free
- Used as a binder for rubber granules in the shock-absorbing layer
- Used for bonding mats to the substrate in seamless floor applications
- The bonded materials may have similar or different surface textures
- Resistant to chemicals, physical stresses, and minor floor movements
- Can be easily applied on floors with underfloor heating
- Elastic
- Multi-purpose
- Can be used on all surfaces and in indoor/outdoor areas



When used for bonding rubber granules together, the dry rubber granules are added to the mixer. **StenSport® BINDER PU** is then added at a minimum rate of 20% and mixed in. After all granules are evenly wetted, the material is spread to the desired thickness on the substrate by hand or by machine.

Applications bonded with polyurethane binder and carried out using a suitable paver (laying machine) provide the best results. This layer must be completely hardened before any work is performed on it.

3.4. Application Tools

Paver (laying machine). Screed rail / Trowel: Notched steel screeds are used.

3.5. Cleaning

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

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.

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		Single-Component Polyurethane
Solids Content (by weight)	EN ISO 3251	100%
Color		Dark Amber
Density	EN ISO 2811-2	1.2 ± 0.05 g/cm ³
Tack-free Time @20 °C		6 hours
Ready for Light Foot Traffic @20 °C		24 hours
Full Cure Time		3-4 days
Shelf Life		1 year
Packaging		20 kg sets

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

