

1. Product Description

StenSport® BINDER PU is a polyurethane-based single-component, solvent-free adhesive material manufactured for sports fields. It has a flexible structure designed to bond the mats used in seamless floor applications to the substrate. It has a structure resistant to chemicals, physical stresses, and minor floor movements.

2. Uses

StenSport® BINDER PU is used for bonding materials with similar or different surface textures. It is suitable for heated floor spaces. It provides strong yet elastic bonding of all major floor covering materials and shock-absorbing mats and plates to all types of substrates.

It is used for bonding thermal and sound insulation plates, rubber coatings, wood parquet, and laminate plates to all types of substrates and to each other. **StenSport® BINDER PU** can be used in all types of sports fields. It is used both for bonding ready rubber granule mats in outdoor synthetic track or indoor field applications, and as a binder for shock-absorbing layers created by bonding rubber granules together.

StenSport® BINDER PU is used for bonding parquet, linoleum, PVC plates, and similar floor covering materials to concrete, mosaic, tile, wood parquet, asphalt surfaces, or other substrates.

3. Application

3.1. Surface Preparation

Proper and correct surface preparation is of great importance. The surfaces to be bonded and to which material is to be bonded must be free of grease, dry, and clean. 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**. In upper level interior applications where moisture is not a concern, no primer is necessary. 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 should be selected based on special conditions if they apply.

Granule and Mat Bonding Material for Indoor and Outdoor Sports Fields

Highlights

- Polyurethane-based, single-component
- Solvent-free
- Used as a binder for rubber granules in the shock absorption layer
- Used for bonding mats to the substrate in seamless floor applications
- Bonded surfaces may have similar or different textures
- Resistant to chemicals, physical stresses, and minor floor movements
- Can be easily applied on underfloor heated surfaces
- Elastic
- Multi-purpose
- Can be used on all surfaces and in indoor/outdoor areas



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 air humidity, so the permeability of the surfaces affects the hardening time.

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

Applications bonded with polyurethane binder and carried out using an appropriate spreader provide the best results. The layer spread must be completely hardened before any work is performed on it.

3.4. Application Tools

Finisher (paving machine). Screed rail / Trowel: Notched steel screeds are used.

4. Cleaning

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

5. 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.

6. 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.

7. 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.



8. Technical Data

Property	Method	Result
Base Polymer		Single-Component Polyurethane
Solid Content	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.

