

# StenSport<sup>®</sup> SD601

## 1. Product Profile

**StenSport<sup>®</sup> SD601** is an elastic, self leveling, floor coating composed of solvent free two component polyurethane resin, pigments and fillers and it is used for seamless floor applications at outdoor and indoor sports grounds. It has high slide and excellent abrasion resistance and it is resistant to chemicals, physical stresses and floor movements. It is a material with high impact absorption, resistant to piercing, tearing and abrasion. It is resistant to outdoor conditions.

**StenSport<sup>®</sup> SD601** is available in **20 kg** sets.

## 2. Uses

**StenSport<sup>®</sup> SD601** can be used on ground where various sports can be played. Depending on the system structure; it is used as the protective coating for the impact absorbent layer, as a binder for the EPDM granules or as the final protective layer. Due to its relatively hard structure when used alone, it is also used at places such as weight lifting gymnasiums, skating, dance and gymnastics halls, health - sports centers, children playgrounds. It is suitable for concrete, terrazzo, ceramic, wooden, inlay and asphalt surfaces.

## 3. Application

### 3.1. Surface Preparation

It is very important to prepare the surface in a correct and proper manner. Detailed information on surface preparation is provided in "Surface Treatment: Floor Surfaces to be Coated" document. It is helpful to saw cut 20 mm deep and 8 - 10 mm wide joints in indoor floors, parallel and in 15 cm distance from the walls in order to prevent the floor coating to be affected from the walls and to ensure its permanent adhesion to the floor.

## General Purpose Floor Coating for Indoor - Outdoor Sports Grounds

### Highlights

## StenSport<sup>®</sup> SD601

- It is polyurethane based.
- It is suitable for indoor and outdoor sports grounds.
- It is elastic and self leveling.
- It has higher mechanical resistance and longer service life compared to other floorings
- It has high impact absorption, high resistance to piercing, tearing and abrasion.
- It is resistant to outdoor conditions.
- It can be used for different purposes, as protective coating or binder depending on system structure.
- It has wide variety of use from children playgrounds to weight lifting halls.
- In case some part of the coating needs to be removed for any reason, patch application may be carried out with the same material, the coating does not lose any properties, the whole coating does not need to be removed.

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Temperature/ Moisture: During the application, ambient and floor temperature must be between 15°C and 30°C. Relative humidity of the floor must be less than 75%.

## 3.2. Primer

The material itself can be used as primer at clean concrete floors. In that case, 0.2 - 0.3 kg **StenSport® SD601** is applied depending on the roughness of the surface. If it will be directly applied on concrete, it is helpful to apply **StenAst® S**. Approximately 50 g/m<sup>2</sup> of **StenAst® S** is consumed. Within maximum 30 minutes after the application of the **StenAst® S**, the floor becomes ready for the application of the top layer.

If **StenSport® SD601** is applied as primer, the materials cures for a while and when this layer is still tacky, actual coating is applied. If another type of primer required by surface characteristics will be used, application instructions of the primer must be followed (See "Primer Selection Guide").

## Mixing and Application (**StenSport® SD601** as primer)

Sufficient amount of material is handled considering surface measure, roughness of the area to be primed and the application capacity of the application team.

Component B is added into the container of component A and they are mixed until a homogeneous mixture is obtained. Mixing is carried out by means of a jiffy type mixer and a powerful low speed (300 - 500 rpm) machine. There must be no unmixed material left at the bottom of and around the container.

The mixture is taken to the application container and it is quickly applied onto the floor by means of a roller, starting from a corner. Do not use the mixing container as the application container. Unmixed portions cause problems. If the application area is wide, priming process is carried out via

squeegee type screed rail. Behind the screed rail another worker spreads the material by means of a roller. During this application the material must not be disturbed too much. Otherwise that may cause foam and bubbles due to air trapped inside.

The surface must be protected from contaminants and dust until the next layer is applied.

## 3.3. First Layer

An application with easy, fast and flawless results is possible on a surface prepared as stated above.

## Mixing and Application

Mixing the components is carried out as described in "PRIMER - mixing and application" section. But before starting this process, pigmented component is mixed in its own container for 2 - 3 minutes. Then the components are mixed in the same container for 2 - 3 minutes more by paying attention that no air is entering into the mixture and it becomes completely homogeneous. There must not be unmixed material left at the bottom. The mixture is poured on the floor and applied at 1.5 - 2.0 kg per square meter with a steel or plastic screed rail and a 25 - 50 mm nap roller. Thickness may be increased depending on the necessity.

## 3.4. Second Layer

It is applied just as the first layer, only the application thickness is less. Amount of material to be used is 0.5 - 0.7 kg/m<sup>2</sup>.

## 3.5. Application Tools

Brush and Roller: Rollers and brushes to be used must be of professional quality. Brushes must be made of medium dense natural (bristle) type.

Screed rail / Trowel: Straight and baseboard screed rails made of steel are used.

## 4. Cleaning

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Used equipment and tools must be cleaned using a solvent after being wiped. **StenSolver CL** can be used for cleaning of the application equipment.

## 5. 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.

## 6. Storage

The materials must be stored at storages with controlled temperature of 10 - 30°C, protected from sunlight and moisture. The materials must be kept far from open fire and sources that may create fire hazard. Stored unopened in these conditions, the shelf life is 12 months.

## 7. Maintenance

Damaged parts should be repaired. If required, please refer to our Technical Support service regarding this matter.

## 8. Company Liability

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**Stenkim**<sup>®</sup> reserves the right to update all information contained in this document without notice.

## Technical Data

Property	Method	Result
Base Polymer		2 Component Polyurethane
Solids Content %		100
Application Thickness		0.3-5 mm
Color		Color Catalog
Density		1.34±0.05 g / cm <sup>3</sup>
Tensile Modulus		4.3 MPa
Tear Strength	ASTM D 624 Die C	45 N / mm
Elongation at Break	ASTM D 412 Die B	75%
Abrasion Resistance	ASTM D 4060, Taber dry CS10/100 rev/1kg	6mg
Durometer Hardness (Shore)	ASTM D 2240	D55-60
Pot Life of the Mixture @ 20°C		20 minutes
Tack Free Time @ 20°C		3 hours
Cure Time for Light Trafficability @ 20°C		24 hours
Cure Time for Sports Use @ 20°C		4 - 5 days

**Stenkim**<sup>®</sup> reserves the right to make changes in the values in this table at any time.