

1. Product Description

StenCoat® SD 601 is a flexible, self-leveling floor coating consisting of solvent-free, two-component polyurethane resin, pigments and fillers, and is used for seamless floor applications on indoor and outdoor floors. It features high slip resistance and good abrasion resistance; it is resistant to chemicals, physical stresses, and floor movements. It has high impact absorption and elastic recovery capability; it is resistant to indentation, tearing and abrasion.

It is resistant to outdoor conditions. Sunlight does not alter the mechanical properties of the material but may cause discoloration over time.

2. Uses

StenCoat® SD 601 can be used on many indoor and outdoor floors. On the floors of hospitals, offices, schools, kindergartens and similar places, it creates a smooth, easy-to-clean and hygienic surface. Its high impact absorption and flexibility also make it a preferred choice for sports and activity areas; it is used in indoor sports halls, weight-training, skating, dance and gymnastics halls, health and fitness centers and children's play areas.

Outdoors, in the construction of synthetic sports surfaces, it can be used as the protective coating of shock-absorbing layers, as the binder of EPDM granules, and as the final protective topcoat. It is suitable for concrete, terrazzo, ceramic, wood, parquet and asphalt surfaces.

3. Application

3.1. Surface Preparation

Application surfaces must be clean and dry. Application must not be carried out if the surface temperature is below 15 °C or above 30 °C. The relative humidity of the substrate must not exceed 75%.

It is helpful to saw cut 20 mm deep and 8-10 mm wide joints in indoor floors, parallel to the walls and 15 cm away from them, in order to prevent the floor coating from being affected by the walls and to ensure its permanent adhesion to the floor. On concrete surfaces, **StenAst® 2EP** or **StenAst® 2EP-F** must be used. Depending on the surface roughness, 0.3-0.7 kg/m² primer is applied.

Sand can be spread on the primer at 3-4 times the weight of the primer. Excess sand must be swept after 24 hours and the surface must be sanded. If sand is not used, there is no need for sanding.

In areas where moisture is expected from the floor, **StenAst® S** must be used. **StenAst® S** consumption is approximately 50 g/m². After **StenAst® S** is applied, the floor becomes ready for application of the next layer within 30 minutes at the latest.

In cases where the topcoat needs to be leveled with leveling mortar, the next layer is applied while the primer is not yet fully dry and is still tacky. If there are irregularities exceeding 3 mm per meter on the surface, leveling mortar must be applied to level the floor. In this case, while the primer is not yet fully dry, **StenSilica** (0.3-0.5 mm quartz sand) is sprinkled on it. The surface must be protected from contaminants and dust until the next layer is applied.

Flexible Seamless Polyurethane Sports and General-Purpose Floor Coating

Highlights

- Suitable for indoor and outdoor surfaces
- Used in sports and activity floors and synthetic sports field systems
- Has self-leveling capability
- Solvent-free
- Flexible, adapts to floor movement
- Good mechanical strength
- Long service life
- High impact absorption
- Allows patch repairs
- Available in catalog colors



3.2. Application

Before starting the process, component A is mixed in its own container for 2-3 minutes and component B is added to the container holding component A. It is mixed until a homogeneous mixture is obtained. Mixing is carried out with a jiffy-type mixer and a powerful low-speed (300-500 rpm) machine.

Both components are mixed for another 2-3 minutes, taking care that no air enters the mixture. There must be no unmixed material left on the walls or at the bottom of the container. The mixture is transferred to a separate application container.

The mixture is applied quickly to the floor, starting from a corner. The container used to mix the components must not be used as the application container. The mixture is poured onto the floor and applied with a steel or plastic notched trowel and a roller with a 25-50 mm nap at 1.5-2.0 kg/m².

Thickness can be increased as needed. If the application area is wide, the application is carried out with a squeegee-type gauge rake; behind the gauge rake, another worker spreads the material with a roller. During this application, the material must not be disturbed too much; otherwise, trapped air may cause foam and bubbles.

If needed, a second, thinner coat can be applied in the same way as the first. The amount of material to be applied is 0.5-0.7 kg/m². The surface must be protected from contaminants and dust until the next layer is applied.

3.3. 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. 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		Two-Component Polyurethane
Solids Content (by weight)		100%
Color		Catalog
Density		1.34 ± 0.05 g/cm ³
Application Thickness		1-5 mm
Hardness (Shore D)	EN ISO 868	D60
Abrasion Resistance	ASTM D 4060 CS10/100 rev/1 kg	6 mg
Tensile Modulus	ASTM D 412 Die B	4.3 MPa
Tear Strength	ASTM D 624 Die C	45 N/mm
Pot Life @23 °C		20 minutes
Tack-free Time (100 µm) @23 °C		3 hours
Ready for Light Foot Traffic @23 °C		24 hours
Full Cure Time @23 °C		4-5 days
Shelf Life		1 year
Packaging		18 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time. *CE: CE marked in accordance with EN 1504-2 (PR-C) (DoP STN-PRC-SD601-0001).*

