

StenFloor[®] 6000

1. Product Profile

StenFloor[®] 6000 is a heavy duty, highly elastic, quick curing, solvent free seamless coating and flooring system. It has high skid, tear, abrasion resistance and high tensile strength. It has excellent resistance to chemicals, physical stresses and minor floor movements.

It is a system which consists of solvent free polyurea resin, pigments and solid fillers. It is a seamless, long lasting and reliable coating system with slightly grained texture. It retains its outstanding elasticity even under cold conditions. It is resistant to organic and inorganic acids and alkalis, oils, fuels and antifreezes and many chemicals. It can be sprayed on horizontal and vertical surfaces. **StenFloor[®] 6000** is resistant to UV Radiation; it neither weakens, nor becomes brittle.

StenFloor[®] 6000 is available in drums.

2. Uses

StenFloor[®] 6000 has extensive use at places including chemical process areas, wet and dry areas at food preparation places, clean rooms, printing houses, beverage facilities, water filling facilities, cafeterias, workshops, factories, hospitals and social building floors.

It is especially suitable for places that has adverse application conditions or places that must be opened to traffic as soon as possible. It is suitable for concrete, terrazzo ceramic, steel and other metal surfaces and water resistant plywood surfaces at these places.

StenFloor[®] 6000 can also be used as a coating on water tanks, steel constructions or roads that require must be opened to

Polyurea Based Heavy Duty Coating

Highlights

StenFloor[®] 6000

- It is polyurea based.
- It contains no VOC.
- It can be easily and quickly applied by an spraying machine.
- It becomes serviceable soon after application.
- It can be applied even under high humidity or very low temperature conditions.
- It is a long lasting material with excellent mechanical and chemical resistance.
- It has very high thermal resistance.
- It retains its elasticity even at very low temperatures.
- It is resistant to UV radiation.

service early. It creates an impermeable and long lasting protective membrane at those sites.

3. Application

3.1. Surface Preparation - General

It is very important to prepare the surface in

StenFloor® 6000

a correct and proper manner. For this reason, if you provide detailed information about the condition of your surface, most suitable surface preparation procedures will be recommended by Stenkim®.

Temperature / Moisture: During the application, ambient and substrate temperature must be above -20°C .

3.2. Primer

It is beneficial to apply first StenAst® S on the floor, in order to increase adhesion to concrete thoroughly. StenAst® S protects the adhesion from effects of water and recommended especially when there is water contact from underneath. Within maximum 30 minutes after the application of the StenAst® S, the floor becomes ready for the application of the top layer. StenAst® 2PU can be used as primer at clean concrete floors. StenAst® 3EP should be preferred on weak or absorbent substrates. For application of the primers, consult relevant product literature.

3.3. Leveling Mixture

Leveling mixture is used for smoothing the surface. Such a mixture is not required on strong and smooth surfaces. If the surface has depressions, bumps, pop-outs with higher size than half of the designed coating depth, those must be corrected using StenFloor® Grano 3PU before application of

the floor system.

3.4. Coating Layer

StenFloor® 6000 is applied by two component spray machines. The machine used for this purpose must be able to heat individual components in a controlled manner, spray the material at at least 140 Bar pressure and be suitable for 1:1 volumetric mixing rate.

It is advised to heat components of StenFloor® 6000 to 25-30°C before transferring them to applicator machine's containers. After the material is transferred to the containers, the application temperature must be set to 70C and application must not start until both components heat up to application temperature.

Once the correct temperature is reached, application is done by spraying on the substrate. During the application, the application speed and the distance from the surface must be maintained constant as well as possible. If the pressure or temperature of components become unbalanced, application must be stopped and the balance must be restored.

Applicators must use masks, goggles and gloves. The spray must never be directed to applicator; skin contact with spray must be avoided. Product will cure in a few minutes after two components are mixed.

4. System Design Properties

System Layers		Brand	Necessity	Dry Film Thickness	Pre Curing Period
Surface conditioner, Compatible primer type	Surface Conditioner	StenAst® S	Optional	Nano	30 minutes
	Primer Selected	StenAst® 3EP	Optional	0,1 ile 0,3 mm	2-6 hours
	Primer Selected	StenAst® 2PU	Optional	Variable	Variable
Leveling Mixture		StenFloor® Grano 3EP	Optional	Variable	6-12 hours
Coating Layer		StenFloor® 6000	Required	1,5- 5 mm	1-2 minutes
Top Coat		StenCoat® Anti UV	Optional	0,2-0,3 mm	12-16 hours

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5. Cleaning

Mixing and application tools must be cleaned with an aromatic solvent right after being used. **StenSolver CL** can be used for this purpose.

6. 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.

7. Storage

The materials must be stored at storages with controlled temperature of 10 - 30 °C and must be 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.

8. Maintenance

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

9. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by **Stenkim**[®] and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All **Stenkim**[®] products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by **Stenkim**[®].

Stenkim[®] reserves the right to update all information contained in this document without notice.

Technical Data

Property	Method	Result
Base Polymer		2 Component Polyurea
Solids Content %		100
Colors		Color Catalog
Application Thickness		Min 0,5 mm
Durometer Hardness (Shore)	ASTM D2240	D50-55
Density		1.33±0.1 g/cm ³
Tensile Strength	ASTM D 412 Die B	200 N/mm ²
Elongation at Break	ASTM D 412 Die B	%450
Impact Resistance	ASTM D 2794, 1meter, 2 kg	200 kg cm, No damage
Pot life of the Mixture @ 20°C		2-3 seconds
Cure Time at Light Trafficability @ 20°C		1-2 minutes

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