

StenFloor[®] GRANO FLEX

1. Product Profile

StenFloor[®] GRANO FLEX is a heavy duty type, solvent free elasticized epoxy based coating which can be applied by pouring, and forms a safe and anti-slip floor with special size solid fillers. It has high adhesion, abrasion, impact and chemical resistance. Polymeric mixture matches thermal expansion of the concrete made of Portland cement and has excellent adhesion to concrete. Due to its elasticity it can withstand thermal and dynamic movements without peeling or cracking. It requires no joints. Its application is easy. It is a system which consists of pure solvent free epoxy resin, pigments and solid fillers.

StenFloor[®] GRANO FLEX is available in **50 kg** sets.

2. Uses

StenFloor[®] GRANO FLEX is used in repairing old concrete surfaces, broken slab and joint edges, and similar areas with movable or loose pieces. It can be used on weak surfaces or surfaces subject to high thermal or mechanical loads. It can also be used as top coating at deceleration and stop zones and where protection and no skidding are desired. It is suitable to be used at pavements, floors of industrial storage tank fields, airport pavements, turns and slowdown regions of park areas. It is suitable for concrete, terrazzo, ceramic, wooden, metal and asphalt surfaces.

3. Application

3.1. Surface Preparation - General

It is very important to prepare the surface in 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[®]. No oil, dirt, asphalt or old patch materials must be left

Epoxy Based Heavy Duty Floor Coating

Highlights

StenFloor[®] GRANO FLEX

- It is epoxy based.
- It has excellent adhesion to concrete and matches thermal expansion of the concrete.
- It withstands high thermal and mechanical loads
- It can be applied joint-free
- It can be used outdoors
- It has very high impact resistance.
- It has excellent abrasion resistance.
- It is fluid, easily applicable.
- It is self leveling.
- It is anti-skid and the surface can also be textured, if required.
- It contains no VOC.
- It is resistant to chemicals.

on the surface. Dust and loose materials must be removed.

Temperature/ Moisture: During the application, ambient and floor temperature must be between 10°C and 30°C, relative humidity must be maximum 75%.

StenFloor® GRANO FLEX

3.2. Application with Aggregate Mixture

It is very important that the surface where this self leveling material will be applied is prepared as required. An application with easy, fast and flawless results is possible on such a floor.

Mixing and Application

Mixing the components is carried out as follows. Concrete mixer type heavy duty cement mixers with suitable capacity must be used in applications carried out for this purpose. Component A is placed in the mixer and aggregate is added onto it, and they are mixed for 1 - 2 minutes until a homogeneous mixture is obtained. Then component B is added onto this mixture and it is mixed for 1 - 2 minutes more, and without delay it is poured on the application area. Material poured is first spread and then leveled with a screed rail. If desired, additional aggregate can be broadcast on the surface before the material sufficiently cures. Loose aggregates on sufficiently cured material can be swept away. Aggregates must be selected among high hardness, abrasion resistant materials. **StenSilica** is suitable for this purpose. Aggregate size is determined depending on the application thickness.

3.3. Application Tools

Mixer: Jiffy type or heavy duty concrete mixer.

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 screed rails and straight and jagged trowels made of steel are used. Leveling machine may be of power trowel and / or screed vibrator type.

4. Cleaning

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

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 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.

7. Maintenance

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

8. 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.

StenFloor® GRANO FLEX

Technical Data

Property	Method	Result
Base Polymer		2 Component Epoxy
Solids Content %		100
Application Thickness		Min 5 mm
Color		Grey
Durometer Hardness, Shore (A+B+C)	ASTM D 2240	D 75-80
Density (A+B)		1.23 ± 0.05 g / cm ³
Density (A+B+C)		1.95 ± 0.05 g / cm ³
Voc (Volatile Organic Content)		0%
Thermal Compatibility	ASTM C 884	Pass
Ultimate Elongation (A+B)	ASTM D 412 Die B	>%20
Chemical Resistance to Jet Fuel @23°C	ASTM D 1308	Pass
Chemical Resistance to Engine Oil @23°C	ASTM D 1308	Pass
Chemical Resistance to Antifreeze @23°C	ASTM D 1308	Pass
Chemical Resistance to Salt @23°C	ASTM D 1308	Pass
Pot Life of the Mixture @20°C	A+B	A+B+C
Tack Free Time @20°C	A+B+C	12 hours
Cure Time for Light Trafficability @20°C	A+B+C	24 hours
Cure Time for Heavy Trafficability @20°C	A+B+C	3 days
Cure Time for Chemical Resistance @20°C	A+B+C	7 days

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