

StenCoat® GRANO 3EP FLEX



1. Product Description

StenCoat® GRANO 3EP FLEX is a heavy-duty, flexible, epoxy-based floor coating material. It is solvent-free. It is applied by pouring.

With specially sized solid fillers, it forms a safe, slip-resistant floor. It is applied by pouring onto the floor and smoothing with a trowel. It has high adhesion strength and high resistance to abrasion, impact and chemicals.

The polymeric mixture is compatible with thermal expansion of concrete made from Portland cement and adheres well to concrete. Due to its elastic nature, it withstands thermal and dynamic movement without peeling or cracking. It does not require joints in places subject to minor movements.

It is easy to apply. It is a system consisting of solvent-free pure epoxy resin, pigments and solid fillers.

2. Uses

StenCoat® GRANO 3EP FLEX is used to repair old concrete surfaces, broken slab and joint edges, and similar small areas. It is also suitable for repair of weak surfaces or surfaces subjected to high thermal or mechanical loads. It can also be used as a topcoat in areas where protection and non-slip properties are required, in deceleration and stopping zones.

It is used on pedestrian walkways, floors in industrial storage tank areas, airport pedestrian walkways, and turning and deceleration zones in parking areas. It is suitable for concrete, mosaic, tile, wood, metal and asphalt surfaces.

3. Application

3.1. Surface Preparation

Proper surface preparation is of great importance. For this purpose, if detailed information about the condition of the surface is provided, **Stenkim®** will recommend the most suitable surface preparation methods. Oil, dirt, asphalt or old patch materials must not be left on the surface.

Dust and loose materials must be removed. During application, the ambient and surface temperature must be between 10-30 °C, and the relative humidity of the surface must not exceed 75%.

3.2. Application

The proper preparation of the surface to which this self-leveling material is to be applied is of great importance. On a properly prepared surface, easy, quick and error-free application is possible. The components are mixed as follows. For applications of this kind, heavy-duty horizontal rotary concrete and mortar mixers of suitable capacity must be used. Place components A and B in the mixer and mix for 1-2 minutes until homogeneous. The aggregate is then added to this mixture, mixed for an additional 1-2 minutes, and immediately poured onto the application area.

The pot life of the mixture is approximately 45 minutes at room temperature. The poured material is first spread roughly and leveled with a screed. If desired, additional aggregate can be broadcast on the surface before the material sets.

Epoxy-Based Heavy-Duty Floor Coating Material

Highlights

- Epoxy-based
- Provides good adhesion to concrete and accommodates concrete thermal expansion
- Resistant to thermal and mechanical loads
- Suitable for joint-free applications
- Suitable for outdoor conditions
- High impact resistance
- Flowable and easy to apply
- Has self-leveling capability
- Non-slip; the surface can also be roughened
- Solvent-free
- Resistant to chemicals



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Loose aggregates on set material can be swept away. Aggregates must be selected among high hardness, abrasion-resistant materials. **StenSilica** is suitable for this purpose.

The recommended application thickness is 5-8 mm. Aggregate size is determined according to the application thickness.

3.3. Cleaning

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

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. 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 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.



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7. Technical Data

Property	Method	Result
Base Polymer		Epoxy
Solids Content (by weight)		100%
Color		Grey
Application Thickness		5-8 mm
Hardness (Shore) (A+B+C)	EN ISO 868	D75-80
Density (A+B)		1.2 ± 0.1 g/cm ³
Density (A+B+C)		2 ± 0.1 g/cm ³
Thermal Compatibility	ASTM C 884	Pass
Elongation at Break (A+B)	ASTM D 412 Die B	>20%
Volatile Organic Compound (VOC)		0 g/l
Shelf Life		1 year
Packaging		24 kg sets

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



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