

1. Product Description

StenCoat® 2EP 250G is a self-leveling, high-gloss, seamless floor coating. It is a system consisting of solvent-free epoxy resin, pigment and solid filler. **StenCoat® 2EP 250G** is resistant to common chemicals and moderate chemical exposure.

It is a seamless, long-lasting and robust coating system resistant to abrasion and penetration. **StenCoat® 2EP 250G** can be applied at lower ambient temperatures (down to 10 °C) and has a longer working time than the standard type.

2. Uses

StenCoat® 2EP 250G is suitable for concrete, mosaic, tile, steel, other metal and water-resistant plywood surfaces in areas requiring resistance, such as food and beverage production facilities, industrial areas, workshops, and maintenance and repair areas.

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. During application, the ambient and surface temperature must be between 10-30 °C. The moisture content in the floor must be maximum 5%.

3.2. Primer

StenAst® 2EP or **StenAst® 2EP-F** must be used as primer on clean concrete floors. Depending on the surface roughness, 0.2-0.4 kg/m² of 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. Similarly, if another type of primer is required by surface characteristics, the application instructions of the primer must be followed.

For areas where moisture is expected from the floor, it is recommended to first apply **StenAst® S** to significantly improve adhesion strength. **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 #5** (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.

Epoxy-Based Self-Leveling Floor Coating Material

Highlights

- Epoxy-based
- Solvent-free
- Self-levels and gives an even appearance
- Long-lasting, robust and durable
- Resistant to common chemicals and moderate chemical exposure
- Protects the surface and extends its service life
- Creates a hygienic, clean, and durable seamless floor
- Suitable for all hygienic facilities, industrial areas and workshops
- Its decorative appearance allows for use in social spaces, offices and stores



3.3. Leveling Mortar

Leveling mortar is necessary to make the surface smooth and to ensure that the self-leveling main coating provides a smooth surface. Uneven surfaces must first be leveled with a mortar consisting of **StenCoat® 2EP 250G** and graded **StenSilica** quartz sand. In the application of **StenCoat® 2EP 250G** as leveling mortar, 1-3 parts by weight of **StenSilica** #6-#9 aggregate are added per 1 part by weight of the coating system (A+B combined); the aggregate is first homogenized with component A in a horizontal rotary mixer, then component B is added.

Aggregate size is chosen not to exceed one-third of the leveling depth. The mixture, made completely homogeneous by stirring for 2-3 minutes, is spread to the required thickness, starting from one edge. It is spread immediately with a 1-meter wide straight squeegee and then smoothed with a power trowel.

The surface must be protected from contaminants and dust until the next layer is applied. These operations must be completed as quickly as possible before the material starts to harden.

3.4. First Coating Layer

The first coat is a thin skim coat that seals the pores of the surface and provides an even base for the final coat. It is of great importance that the surface to which this self-leveling material will be applied after mixing has been properly prepared. Quick, easy and error-free application is possible on the floor prepared in the manner described above.

StenCoat® 2EP 250G consists of two components called A and B, packaged in the required amounts for the optimal mixture. First, sufficient material is prepared considering the area and roughness of the surface to be coated and the application team's capacity. Before starting the process, the components are mixed separately in their containers for 2-3 minutes. Then component B is added to the container holding component A, and the two components are mixed until homogeneous. Mixing is carried out with a jiffy-type mixer and a powerful low-speed (300-500 rpm) machine. There must be no unmixed material left on the walls or at the bottom of the container.

To prevent air from entering the mixture, speeds higher than specified must not be used and the stirrer tip must be kept in the bucket at all times. 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 0.6-1.2 kg/m².

3.5. Second Coating Layer

It is applied the same way as the first layer, but to a greater thickness. The amount of material to be applied is 1.5-2.0 kg/m². If necessary, after applying **StenCoat® 2EP 250G**, appropriately sized crushed aggregate can be sprinkled on the surface to give the surface a granulated texture.

Aggregates must be selected among high hardness, abrasion-resistant materials. **StenSilica** #4 is suitable for this purpose. Additionally, if **StenCoat® 2PUV 401**, 402 or 403 is applied as a topcoat, the dirt-repellent property and ultraviolet resistance of the surface are increased.

3.6. 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. Under these conditions, the material will retain its properties in unopened packages until the expiration 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.

7. Technical Data

Property	Method	Result
Base Polymer		Two-Component Epoxy
Solids Content (by weight)		100%
Color		Catalog
Density	EN ISO 2811-2	1.48 ± 0.1 g/cm ³
Final Coat Thickness		min. 1 mm
Final Hardness	EN ISO 868	D80-85
Pull-Off Test	EN 1542	> 5.5 MPa (concrete failure)
Viscosity	EN ISO 3219	1350 cP
Abrasion Resistance	EN ISO 5470-1	400 mg
Pot Life	EN ISO 9514	60 min
Tack-free Time @20 °C		5 hours
Time to Open to Traffic @20 °C		1 day
Full Cure Time @20 °C		7 days
Shelf Life		1 year
Packaging		20 kg sets

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

