

1. Product Description

StenCoat® 2EP 250 is a two-component, epoxy-based decorative floor coating. It has high abrasion and chemical resistance. It can be used as an economical coating on concrete floors either on its own or as a topcoat over StenCoat® floor coating systems.

It is resistant to weak acids and bases, detergents, disinfectants, hydraulic oils, many solvents and fuels. **StenCoat® 2EP 250** reduces dusting, wetting, and water penetration, and increases the surface's resistance to soiling and oxidation.

2. Uses

StenCoat® 2EP 250 is used on concrete and metal floors, on top of mortar-type or self-leveling seamless floor coatings, to improve abrasion resistance, slip resistance and chemical resistance of the surface and to give it a decorative appearance. It can be used for hygienic purposes in hospitals, restaurants, and kitchens; for safety and appearance on wet floors such as pool surrounds and bathrooms; for protection and aesthetics in social facilities and shopping centers; and for floor protection in industrial facilities. Surfaces coated with **StenCoat® 2EP 250** are easy to clean, dry quickly, and do not generate dust.

The coating retains its flexibility and abrasion resistance for a long time. Epoxy-based coatings may yellow or change color over time when exposed to direct sunlight and UV. For best results, **StenCoat® 2PUV 401**, 402 or 403, which is water-based and substantially blocks UV rays from reaching the epoxy surface, must be applied as a topcoat. It covers floor cracks, defects, and joints, while protecting seams, joints, edge joints, and cracks in the coating system.

3. Application

3.1. Surface Preparation

Application surfaces must be clean and dry. Surface temperature must not exceed 40 °C. For standalone coating applications, the floor must be primed first.

On seamless floor systems, glass surfaces and concrete floors in constant contact with water, the surface must be primed using **StenAst® S**; for all other applications, the surface must be primed using **StenAst® 2EP**. The time periods specified in the user manual of the primer used must be observed.

3.2. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During the application, surface and ambient temperature must be at least 15 °C and the temperature must not drop below 15 °C for 24 hours following the application. **StenCoat® 2EP 250** is ready for application when components A and B are mixed.

The components are packaged so that one container of each yields the correct mixing ratio. In cases where a complete package will not be used, the package must be weighed and proportioned; the mix ratio stated on the package must be observed. Component B is poured into the container containing component A and the two components are mixed for 3-4 minutes at 300-500 rpm until they become homogeneous.

Epoxy Floor Coating

Highlights

- Self-levels and gives an even appearance
- Solvent-free
- Highly resistant to abrasion and chemicals
- Easy to clean
- Creates a hygienic, clean, and durable seamless floor
- Good adhesion to all types of substrates such as concrete, steel and cementitious surfaces
- High chemical resistance and long service life
- Available in catalog colors



Avoid entraining air into the mixture. The mixed material must be poured into another container and transferred to the application area. Direct pouring onto the substrate from the mixing container should be avoided.

Mixed material must be used within the pot life. Material that has begun to thicken must not be diluted for reuse.

StenCoat® 2EP 250 is applied with a trowel or roller.

The desired surface texture depends on the method used and, if a roller is used, the type of roller. When used directly on concrete or a similar surface, the product can be applied in one or two coats. Typically, 1400-2800 g of material is used per square meter. Because **StenCoat® 2EP 250** is solvent-free, it can be applied at the required 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.



7. Technical Data

Property	Method	Result
Base Polymer		Epoxy
Solids Content (by weight)		100%
Color		Catalog
Density		1.48 ± 0.03 g/cm ³
Application Thickness (per coat)		200-700 µm
Hardness (Shore)	EN ISO 868	D75-85
Adhesion Strength	ASTM D 4541 (on epoxy coating)	2.6 MPa (370 psi)
Adhesion Strength	ASTM D 4541 (on concrete)	> 5.1 MPa (> 740 psi, concrete failure)
Adhesion Strength	ASTM D 4541 (on steel)	> 10.3 MPa (> 1500 psi)
Pot Life @20 °C		55 ± 15 minutes
Tack-free Time @20 °C		2 hours
Full Cure Time		2 days
Abrasion Resistance	ASTM D 4060 H22/1000 rev/1 kg	147 mg
Reaction to Fire Class (system)	EN 13501-1	Bfl-s1
Shelf Life		1 year
Packaging		20 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-2EP250-0002).*

