

1. Product Description

StenCoat® 2EPV 301 is an epoxy-based, two-component, transparent, protective floor varnish. It has high abrasion and chemical resistance. It protects the surfaces on which it is applied and provides slip resistance.

Its chemical resistance is very high. It is unaffected by many acids and bases, disinfectants, hydraulic oils, solvents and fuels.

StenCoat® 2EPV 301 prevents dusting, abrasion, wetting and water permeation of the surface it protects, and increases its resistance to oxidation and soiling.

2. Uses

StenCoat® 2EPV 301 is used as a topcoat over StenCoat® brand epoxy-based seamless floor coatings in areas where short-term contact with aggressive chemicals may occur. It improves the slip, abrasion and chemical resistance of the surface. It covers fine cracks and joints on the surface it is applied to, increasing the coating's durability and extending its life.

Surfaces coated with **StenCoat® 2EPV 301** are easy to clean, dry quickly, and do not generate dust. The coating maintains its properties for a long time. It is especially ideal for factories where chemical products are used, hospitals, food facilities, machinery manufacturing and sales facilities, storage areas and surfaces that are continuously exposed to aggressive cleaners and disinfectants.

3. Application

3.1. Surface Preparation

Application surfaces must be clean and dry. Surface temperature must not exceed 40 °C. **StenCoat® 2EPV 301** can be used on glass, tile, ceramic, metal, brick and concrete surfaces without a primer. Polymeric surfaces must be primed with **StenAst® S**.

3.2. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During application, surface and air temperature must be at least 10 °C and the temperature must not drop below 10 °C for 24 hours following the application. Application must not be carried out if there is a possibility of rain.

In applications carried out in high humidity and low temperatures, a slight haze may appear on the coating. **StenCoat® 2EPV 301** is ready for application when components A and B are mixed. For easier application and a smoother surface, up to one part **StenSolver EP** can be added to ten parts material.

StenSolver EP must be added to component A at the beginning of the process, before component B is mixed in. 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. Because the product is transparent, observe the mixing time closely to ensure the components are mixed homogeneously. Mixed material must be used within the pot life.

Epoxy-Based Chemical-Resistant Floor Varnish

Highlights

- Resistant to many chemicals
- Transparent; protects the surface on which it is applied without spoiling its appearance
- Highly resistant to abrasion and chemicals
- Easy to clean, dries quickly and does not cause dusting
- Creates a hygienic, clean, and durable seamless floor
- Forms a long-lasting, hygienic surface with high chemical resistance



Material that has begun to thicken must not be diluted for reuse. **StenCoat® 2EPV 301** is best applied with a brush and roller. The desired surface texture depends on the method used and, if a roller is used, the type of roller.

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)		96%
Color		Transparent
Density		1.12 ± 0.05 g/cm ³
Density (Dry Film)		1.14 ± 0.05 g/cm ³
Application Thickness (per coat)		90-150 µm
Pot Life @20 °C	EN ISO 9514	30 minutes
Tack-free Time @20 °C		4 hours
Ready for Light Traffic @20 °C		1 day
Full Cure Time		7 days
Shelf Life		1 year
Packaging		15 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-2EPV301-0001).*

