

1. Product Description

StenCoat® 2EP 402 is a two-component, water-based epoxy floor and wall coating. It can be used on wet or moist concrete surfaces due to its water-based structure. Its water-vapor-permeable, breathable structure makes it an excellent top coat material.

Depending on application thickness and system, it is resistant to diluted acids and alkalis, detergents, disinfectants, hydraulic fluids and various solvents and fuels. **StenCoat® 2EP 402** prevents dusting and abrasion of the protected surface and increases its resistance to oxidation and soiling.

2. Uses

StenCoat® 2EP 402 is used in medium-service workplaces, maintenance workshops, printing houses, social spaces, offices, waiting rooms, clinics and clean rooms. It is also used on walls of food preparation areas, beverage facilities, water filling plants and cafeterias. It is suitable for concrete, mosaic, tile and water-resistant plywood surfaces in these spaces.

Surfaces coated with **StenCoat® 2EP 402** are easy to clean, dry quickly, and do not retain dust. The coating retains its color, elasticity and abrasion resistance for a long time.

3. Surface Preparation

Application surfaces must be clean and free of ponded water. Loose materials must be removed and parts in disrepair must be repaired. Surface contaminants must be removed by sandblasting or mechanical abrasion.

Contaminants that have penetrated into the concrete must be removed using cleaners capable of dissolving the contaminant, followed by detergent and water cleaning. In cases where there is suspicion that the contamination is not removed, it is recommended to conduct an adhesion test before coating. Humidity of the concrete pavement must be determined before application.

If the humidity is higher than 0.75 kg/24 hours/100 m² (ASTM F-1869/98) or relative humidity measured by hygrometer is higher than 75%, **StenAst® 2EP MT** must be applied. **StenAst® 2EP MT** should be applied in one or two coats at 200-400 g/m² per coat.

4. 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. **StenCoat® 2EP 402** is prepared for the application by mixing two components.

First, component A container is opened and mixed at 300-500 rpm for 2-3 minutes. Component B is poured into the container of component A and they are mixed for 2-3 minutes more. There must be no unmixed material left on the walls or at the bottom of the container.

Manual mixing of the components is insufficient. Insufficient mixing may cause the material to cure partially or not at all. Mixed material must be used within the pot life.

Water-Borne Epoxy Floor and Wall Coating

Highlights

- Water-based epoxy
- Can be diluted with water
- Can be applied on wet or damp surfaces
- Hygienic and odorless
- Creates a smooth surface with high slip resistance and low dirt pickup
- The coated surfaces are easy to clean, dry quickly, and resist dusting
- Improves abrasion and chemical resistance of the surface
- Impermeable to liquid water
- Easy to apply with brush and roller
- Catalog colors are available



StenCoat® 2EP 402 is poured into a paint tray and applied continuously with brush or roller, working the material into the surface. At least two coats should be applied with approximately 100-300 µm per coat. The surface of the first coat must be protected from contaminants and dust until the next coat is applied.

The second layer should be applied when the first layer has started to cure but is still tacky before it dries completely. If the second coat is applied too late, intercoat adhesion may be adversely affected. More than two coats can be applied depending on the texture of the surface.

5. Cleaning

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

6. Safety

Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

7. 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.

Protect the product from freezing. Frozen material cannot be reused.

8. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without 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 application and for all conditions of transport, storage, handling, 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.



9. Technical Data

Property	Method	Result
Base Polymer		Two-Component Water-based Epoxy
Appearance		Matt
Solid Content (A+B)		70
Hardness (Shore D)		60
Density	EN ISO 2811-2	1.55 ± 0.05 g/cm ³
Application Thickness (per coat)		100-300 µm
Pot Life @23 °C		45 minutes
Tack-free Time @23 °C		4 – 8 hours
Minimum Waiting Time for Top Coat @23 °C		8 – 10 hours
Maximum Waiting Time for Top Coat @23 °C		24 hours
Full Cure Time		5-7 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.

