

## 1. Product Profile

StenCoat® 2EP 312 is a two-component epoxy based, resin binder for terrazzo systems. It has excellent abrasion resistance and low dirt pickup. It can be used with fine and or coarse mineral aggregates (marble or granite), colored or recycled glass, mirror particles, plastic chips, sea shells to produce custom design options. StenCoat® 2EP 312 is extremely durable and resistant to weak organic acids and bases, detergents, disinfectants, hydraulic fluids, many solvents and common chemicals. StenCoat® 2EP 312 prevents dusting, wetting and water permeation to the surface and increases its resistance to dirt pickup and oxidation. Catalog colors are available.

StenCoat® 2EP 312 is available in 21 kg sets.

## 2. Uses

StenCoat® 2EP 312 is used as a binder for terrazzo systems. It creates an extremely durable, smooth, easy-to-clean and hygienic surface on floors for hospitals, restaurants, kitchens, pharmaceutical research centers, schools, banks, lobbies, shopping malls, airport terminals, train and bus stations, convention centers and similar places. Surfaces coated with StenCoat® 2EP 312 are easily cleaned, easily dried and does not create dust. Coating preserves its color, elasticity and abrasion resistance for a long time. It covers cracks, joints and surface irregularities.

## 3. Surface Preparation

Application surfaces must be clean and dry. Surface temperature must not be over 40°C. On seamless floorings, glass surfaces and in case of continuous water contact StenAst® S should be used as the primer. On concrete, plaster and similar porous or absorbent surfaces StenAst® 3EP should be used. For other types of surfaces StenAst® 2EP should be used. The application temperatures mentioned in the user manual of the primer must be observed.

## 4. Application

It is helpful to keep the materials at 20-30°C for one day before the application date. During the application, surface and ambient temperature must be minimum 15°C and the temperature must not drop below 15°C for the 24 hours following the application.

## Epoxy Based Binder for Terrazzo Coatings

### Highlights

- Allows custom designs
- Compatible with wide variety of aggregates and glass types
- Catalog colors are available
- Creates a smooth surface with high slip resistance and low dirt pick up
- Improves abrasion and chemical resistance of the surface
- Extremely durable and long lasting
- Can be repolished

StenCoat® 2EP 312 can be combined with a wide range of fine and or coarse mineral aggregates (marble or granite), colored or recycled glass, mirror particles, plastic chips and sea shells. The characteristic of the selected aggregates has an uncontrollable effect on the properties of the product.

StenCoat® 2EP 312 is prepared for the application by mixing two components. The components are packaged as they will mix at right proportions when one container from each is mixed. In cases where one complete package cannot be used, the package must be weighed and proportioned, and the mix ratio stated on the package must be observed. Component B is added into the container of component A and they are mixed for 1-2 minutes at 300-500 revolution.

The mixed material should be poured into a low rpm horizontal mixer. The aggregate mixture is added to the material and mixed until homogeneous. Mixing is continued until the aggregates are fully wetted and coated with the epoxy binder. It is important to maintain a homogeneous color and consistency in the material. Excessive mixing should be avoided so that the aggregates do not crumble. Mixed material must be used within the pot life and thickened materials must not be thinned and used.

**StenCoat® 2EP 312** is applied by trowel. After pouring onto the floor, immediately spread and compress the mortar to the desired thickness. It is important not to leave any gaps between the aggregates, and to evacuate any air left in the mixture. For this, a surfer with a suitable weight and plastic propeller can be used. Manual compression is also possible for small applications and detailing.

The application should continue uninterrupted. In order to avoid problems at the transition points of old-new material, newly mixed materials should be spread across the transition of previously applied mixes before the surface begins to set. Make sure to carry out wet-on-wet adhesion at the transition points.

**StenCoat® 2EP 312** is solvent-free, it can be applied as thick as desired. Total thickness should be determined by the largest aggregate size used.

Allow the applied terrazzo to cure for 24 hours at 23 °C before polishing the surface. This time needed takes less in hot weather and takes longer in cold weather. Then, surface is sanded starting from the higher grit pads to 40-80 grit diamond sanding pads. The dust formed during the process is removed from the surface with a strong industrial vacuum cleaner. If there are holes left on the surface, they are retouched with **StenCoat® 2EP 312**. After full curing, the surface is polished using pads between 80-120 grit.

Once set and polishing is complete, terrazzo coating should be sealed with **StenCoat® 2PUV 203** for semi matt finish or **StenCoat® 2PUV 204** for shiny finish.

## 5. Cleaning

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

## 6. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. 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.

Emptied packages must be handled in compliance with relevant regulations and laws.

## 7. Storage

The material must be kept away from sunlight in dry indoor storage. Recommended storage temperature is 10-30°C. Stored in these conditions, the shelf life of unopened containers are 12 months.

## 8. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by **Stenkim®** and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All **Stenkim®** products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by **Stenkim®**.

**Stenkim®** reserves the right to update all information contained in this document without notice.

## 9. Technical Data

Properties	Method	Results
Base Polymer		Epoxy
Solid Content % (A+B)		100
Color		Color Catalog
Density		1.70 ± 0.10 g/cm <sup>3</sup>
Application Thickness, at each layer		5-20 mm
Adhesion	ASTM-D 4541 (on concrete)	>3 MPa
Pot Life of the Mixture @ 23 °C		30 minutes
Time needed before sanding @ 23 °C		24-36 hours
Complete Cure Time @ 23 °C		2 days

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