

StenAst[®] 2EP-F

1. Product Profile

StenAst[®] 2EP-F is a two component, solvent free epoxy primer for all Stenkim[®] brand polymer based surface coatings, top coats and joint sealants.

StenAst[®] 2EP-F is available in 10 kg and 20 kg sets.

2. Uses

StenAst[®] 2EP-F, is a two component solvent free epoxy primer prepared for application of top coats, mortars and sealants such as StenFloor[®], StenCoat[®], StenSeal[®], StenSport[®], StenCare[®], especially on concrete, asphalt, steel, wooden, epoxy and polyurethane surfaces. It is the most suitable primer for application of epoxy floorings on top of concrete. It is also used in filling in the microcracks formed on concrete surface and as surface hardener and dust inhibitor for concrete pavements.

3. Surface Preparation

Concrete Surfaces: Surface must be free from loose materials, oil, grease, paint and the concrete must be dry. This matter is very important if a polyurethane material will be applied on the primed surface. Relative humidity measured by hygrometer must be less than 75%; absolute humidity must be less than 3%. Surface moisture is not a problem at places where it will be used in order to ensure adhesion of old concrete and new concrete.

Contaminants stuck on the surface must be removed by sandblasting or mechanical abrading. Contaminants penetrated into the concrete must be wiped with chemicals that can dissolve contaminant and must be cleaned with detergent and water. In cases where there is suspicion that the contamination is not removed, it is recommended to conduct an adhesion test

General Purpose, Two Component, Epoxy Primer and Surface Protector

Highlights

StenAst[®] 2EP-F

- It is epoxy based and two component.
- It contains no VOC.
- It is a strong primer which also acts as a moisture barrier.
- It provides excellent, moisture resistant adhesion on concrete for final coating applications.
- It fills in the microcracks formed on concrete surface and forms an impermeable layer.
- It can also be used as surface hardener and dust inhibitor for concrete pavements.
- It is applied via brush and roller.

before coating.

Steel Surfaces: Steel surfaces must be sandblasted and they must be cleaned from all types of contamination, stain and remains of previous coatings. Sandblasted surface must be primed as soon as possible.

Note: Detailed information on surface

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preparation is provided in “Surface Treatment: Joint Sealant Application Surfaces” and “Surface Treatment: Floor Surfaces to be Coated” documents.

4. Application

It is helpful to keep the materials at 20 - 30°C for one day before the application date. **StenAst® 2EP-F** must not be applied at temperatures below 10°C. First component A is mixed alone for 2 - 3 minutes. Component B is poured into the vortex that forms in the container of component A and they are mixed for 2 - 3 minutes more in low speed. Low speed drill is used for mixing. There must not be unmixed material left on the walls of the container or at the bottom. Then the mixture is taken to the application container and it is continuously applied on the floor using a brush or roller.

If required, an anti-slip coating can be produced by broadcasting medium or coarse size dry aggregate on the primer when it is still wet. It can be used in repairing wide cracks in the application area by mixing with quartz sand.

Important: Manual mixing of the components is not sufficient. The material may not (partially) cure due to insufficient mixing. **Important:** Do not keep the material in its container after mixing. This significantly shortens the pot life.

200 - 300 microns is applied at each layer. At that thickness, approximately 0.30 - 0.45 kg/m² is consumed per layer. **StenAst® 2EP-F** is applied by means of brush or roller in one or two layers depending on the porosity and texture of the application surface.

Pot life for **StenAst® 2EP-F** and times required for application of the next layer are as specified in the table. Here temperature of the substrate is important. It must be considered that it may be higher than the

ambient temperature in summer but lower than it in winter. During the application substrate temperature must be higher than 10°C.

If primer application will be carried out as two layers, the second layer must be applied when the first layer is not completely cured but still tacky. In case the second layer is applied too late, adhesion will be negatively affected.

5. Application Tools

Brush and Roller: Rollers and brushes to be used must be of professional quality. Brushes must be made of medium dense natural hair. Screed rail/ Trowel: Straight or notched type screed rails and baseboard screed rails made of steel are used.

6. Cleaning

Mixing and application tools must be cleaned with a solvent right after being used. **StenSolver CL** can be used for this purpose.

7. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. Emptied packages must be handled in compliance with relevant regulations and laws.

8. Storage

It must be stored at storages with temperatures between 5 to 30°C. The packages must not be exposed to direct sunlight. Stored in these conditions, the shelf life is 12 months. Packages to be used are recommended to be kept at 20 to 30°C for a couple of days before the application.

9. 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

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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.

Technical Data

Property	Result
Base Polymer	Epoxy
Components Ratio, by Weight (A:B)	3:2
Solids Content %	100
Density (A+B)	1.40±0.1 g/cm ³
Application Thickness, at each Layer	200-300 microns
Color	Greyish - Transparent
Pot Life of the Mixture @23°C	45 minutes
Tack Free Time @23°C	3 hours
Cure Time for Light Trafficability @23°C	24 hours
Minimum Curing Time for Top Layer @23°C	2 hours
Maximum Curing Time for Top Layer @23°C	24 hours
Complete Cure Time	5-7 days

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