StenAst® 2EP

1. Product Profile

StenAst® 2EP is a two component, solvent free epoxy primer for all Stenkim® brand polymer-based surface coatings, top coats and joint sealants. Thanks to its specially designed hardener it has excellent adhesion. It protects the surface and prevents dusting of concrete surfaces.

StenAst® 2EP is available in 15 kg sets.

2. Uses

StenAst® 2EP is designed 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 which can be used as a moisture barrier for the surfaces on asphalt and concrete outdoor pavements where polyurethane surface coating materials such as StenFloor® or StenSport® will be applied. It enhances adhesion of polymer modified cement-based materials on old concrete applied for repair or coating purposes. 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 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.

General Purpose Epoxy Primer and Surface Protector

Highlights

- Strong primer
- Solvent free
- Provides excellent adhesion for further coating applications
- Fills the microcracks concrete surface
- Forms an impermeable layer
- Inhibits dusting of concrete pavements

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.

StenAst® 2EP 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. First component A is homogenized 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. Manual mixing of the components is not sufficient. The material may not (partially) cure due to insufficient 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. Do not keep the material in its container after mixing. This significantly shortens the pot life.

If required, an anti-slip coating can be produced by spreading medium or coarse size dry aggregate on the

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primer when it is still wet. It can be used in repairing wide cracks in the application area by mixing with quartz sand. Mixed material must be used within the pot life and thickened materials must not be thinned and used.

StenAst® 2EP is applied by brush and roller in one or two layers depending on the porosity and texture of the application surface. 200-300 microns applied at each layer. At that thickness, approximately 0.2- 0.35 kg/m^2 is consumed per layer.

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

Pot life for StenAst® 2EP is affected by surface temperature. It should be kept in mind that surface temperature may be higher than the ambient temperature in summer but lower in winter.

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	Results
Base Polymer	Epoxy
Solid Content % (A+B)	100
Color	Transparent
Density	1.05 ± 0.05 g/cm^3
Application Thickness, at each layer	200-300 microns
Pot Life of the Mixture @ 23 °C	45 minutes
Tack Free Time @ 23 °C	3 hours
Minimum Curing Time for Top Layer @23 °C	2 hours
Maximum Curing Time for Top Layer @23 °C	24 hours
Cure Time for Light Traffic @23 °C	24 hours
Complete Cure Time @ 23 °C	2 days

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

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