

1. Product Profile

StenAst® 2EP MT is water-based epoxy primer supplied in two components consists of two polymer components. It can be used on wet or moist concrete surfaces. It has excellent wetting, adhesion and elasticity. Due to its moisture tolerant structure, StenAst® 2EP MT is an excellent primer, surface hardener.

StenAst® 2EP MT penetrates deep into the concrete and inhibits water diffusion into the top coating and prevents adhesive failures at the coating interface.

StenAst® 2EP MT is available in 15 kg sets.

2. Uses

StenAst® 2EP MT is a two component, water based epoxy primer, prepared for top coats and surface materials such as StenFloor®, StenCoat®, StenSeal®, StenSport®, StenCare® to be applied especially on concrete, steel, wooden, epoxy and polyurethane surfaces. It can be used as a moisture tolerant primer for the surfaces where surface coating materials such as StenFloor® or StenSport® will be applied on outdoor and basement concrete floors. It is preferred on rough, absorbent and cracked surfaces due to its high impregnation properties. It penetrates deep into the cracks and pores in these surfaces and makes the floor ready for top coating. It is also used alone at places with shrinkage cracks to protect the concrete from freeze/thaw damage.

3. Surface Preparation

There must not be loose materials, oil, grease or paint on the surface. Mechanical abrasion can be used for cleaning the surface from contaminations. Humidity of the concrete pavement must be determined. If the humidity is higher than 0.75 kg/ 24 hours/100m² (ASTM F-1869/98) or relative humidity measured by hygrometer is higher than 75% StenAst® 2EP MT must be applied as two layers.

4. Application

It is helpful to keep the materials at 20 – 30°C for one day before the application date. StenAst® 2EP MT must not be applied at temperatures below 10°C.

Moisture Tolerant Two Component Epoxy Primer and Surface Protector

Highlights

- Can tolerate moisture
- Penetrates deep into the concrete and inhibits water diffusion into the top coating and prevents adhesive failures at the coating interface
- Provides excellent adhesion of top coats on concrete, steel, epoxy and polyurethane substrates
- Ideal for rough, absorbent and cracked surfaces due to its high impregnation properties
- Can be used alone at places with shrinkage cracks to protect the concrete from freeze/thaw damage
- Excellent primer, surface hardener

Before starting the mixing phase, a container that is big enough should be ready, in order to easily mix all the components with a mixer. First component A is poured in to the arranged container and homogenized for 2-3 minutes. Following to that component B is poured into the vortex that forms in the container of component A. and mixed in a lower speed for 2-3 minutes more. If needed 2.5-3 kg water (20% of amount) of water is added onto the mixture and they are mixed for 2 more minutes at higher speed. There must not be unmixed material left on the walls of the container or at the bottom.

Manual mixing of the components is not sufficient. The material may not (partially) cure due to insufficient mixing.

Then the mixture is continuously applied to the floor with a brush or roller. If necessary, a non-slip coating can be made by sprinkling medium or coarse-sized dry aggregate over the primer while it is still wet. It can be used by mixing with some quartz sand in the repair of wide cracks.

Approximately 200-300 microns are applied at each layer. Accordingly, its approximate consumption is 0.2-0.35 kg/m² per layer. StenAst® 2EP MT is applied in one or two layers depending on the texture of the applied surface. Pot life for StenAst® 2EP MT and times required to apply the next layer are as specified in the table. The temperature during the coating application is important. It should be noted that it may be higher than the ambient temperature in summer and lower in winter. During the application, the coating temperature must be above 10°C. If the primer application is to be made in two layers, the second layer should be applied before the first layer is completely dry but in a tacky state. If the second layer is applied too late, adhesion will be negatively affected.

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.

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

7. Storage

The material must be kept in dry indoor storage. Recommended storage temperature is 10 – 30°C. Stored in these conditions, the shelf life of unopened containers are 12 months. Packages to be used must be kept at 20-30°C for a couple of days before the application.

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	Water based Epoxy
Solid Content % (A+B)	80
Density	1.05± 0.05 g/cm ³
Application Thickness, at each layer	200 – 400 microns
Pot Life of the Mixture @ 23 0C	75 min.
Tack Free Time @ 23 0C	4 – 8 hours
Cure Time for Trafficability @ 23 0C	8 - 10 hours

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