

## 1. Product Description

**StenAst® 2EP MB** is a two-component epoxy primer designed for applications on damp concrete surfaces. It is suitable for use with all **Stenkim®** brand polymer-based surface coating materials, top coats and joint sealants. Thanks to its special formula, it provides strong adhesion on damp concrete surfaces and prevents moisture vapor transmission.

It protects the applied surface and prevents dusting.

## 2. Uses

**StenAst® 2EP MB** is designed mainly to create a moisture barrier between the surface and the coating. It can be applied on 3-day concretes. With its excellent adhesion, it creates a perfect primer layer, especially on concrete surfaces, for application of top coats, mortars and sealants such as StenCoat®, StenSeal®, StenSport®, StenCare®.

It enhances adhesion of polymer modified cement-based materials on old concrete applied for repair or coating purposes. It is also used to fill microcracks formed on the concrete surface and as a surface hardener and dust inhibitor for concrete pavements.

## 3. Surface Preparation

Surface must be free from loose materials, oil, grease, paint. 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.

## 4. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During the application, surface and ambient temperature must be at least 15 °C and the temperature must not drop below 15 °C for 24 hours following the application. **StenAst® 2EP MB** is prepared for the application by mixing two components.

Each component is packaged in quantities that will mix at the correct ratio with the other. Component A is first mixed for 2-3 minutes on its own. Component B is poured into the vortex formed while mixing component A in its container and the mixture is mixed for 2-3 minutes more at low speed.

A low speed drill is used for mixing. Manual mixing of the components is insufficient. Insufficient mixing may cause the material to cure partially or not at all.

There must be no unmixed material left on the walls or at the bottom of the container. Then the mixture is transferred to a paint tray and applied continuously by working it into the floor with a brush or roller. Do not keep the material in its container after mixing.

This significantly shortens the pot life. If necessary, while the primer is still wet, dry aggregate of medium or coarse size can be sprinkled on it to create a non-slip, granular coating. It can be used to repair wide cracks in the application

## Epoxy Moisture Barrier Primer

### Highlights

- Can be applied on damp concrete
- Forms a moisture barrier
- Provides excellent adhesion for further coating applications
- Fills microcracks on concrete surface
- Forms an impermeable layer
- Prevents dusting on concrete surfaces
- Strong primer
- Two-component, solvent-free epoxy



area by mixing with a certain amount of quartz sand.

Mixed material must be used within the pot life, and thickened material must not be thinned and reused. **StenAst® 2EP MB** is applied by brush or roller in one or two coats depending on the texture of the surface on which it is applied. Approximately 400-600 µm is applied in each coat.

Accordingly, the approximate consumption is 0.45-0.65 kg/m<sup>2</sup> per coat. If the primer application will be carried out as two coats, the second coat must be applied before the first coat is fully cured, while it is still tacky. If the second coat is applied too late, intercoat adhesion may be adversely affected.

The pot life of **StenAst® 2EP MB** varies depending on the temperature of the surface and the environment where the application is carried out. It should be taken into account that the surface temperature may be higher than the ambient temperature in summer and lower in winter.

## 5. Cleaning

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

## 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.

Low temperatures may cause crystallization of the product; in this case, the product can be used after heating and homogenizing at +20 °C. The product must be stirred thoroughly before use after prolonged storage.

## 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                             |               | Epoxy                         |
| Solid Content                            | EN ISO 3251   | 100                           |
| Color                                    |               | Yellowish transparent         |
| Density                                  | EN ISO 2811-2 | 1.05 ± 0.05 g/cm <sup>3</sup> |
| Application Thickness (per coat)         |               | 400-600 µm                    |
| Pot Life @23 °C                          |               | 25 minutes                    |
| Tack-free Time @23 °C                    |               | 3 hours                       |
| Ready for Light Foot Traffic @23 °C      |               | 24 hours                      |
| Minimum Waiting Time for Top Coat @23 °C |               | 2 hours                       |
| Maximum Waiting Time for Top Coat @23 °C |               | 24 hours                      |
| Full Cure Time                           |               | 2 days                        |
| Shelf Life                               |               | 1 year                        |
| Packaging                                |               | 15 kg sets                    |

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

