

1. Product Description

StenCare® 2EP 112 is an epoxy-based, two-component, low viscosity injection resin for structural crack repair which can be applied at low pressure or by pouring. **StenCare® 2EP 112** conforms to specification ASTM C 881/C 881M, Type IV, Grade 1, Class E. Its slow, controlled curing provides a long application time even at high ambient temperatures.

2. Uses

StenCare® 2EP 112 is used to repair cracks in concrete walls and floors. It is particularly preferred in hot-climate regions and for filling narrow, fine cracks. Thanks to its high adhesion and load-bearing capacity, it permanently repairs cracks in such facades and floors.

It prevents water leakage, discoloration, and damage caused by water freezing inside the concrete. **StenCare® 2EP 112** is produced by adding flow- and adhesion-improving additives to an epoxy resin that adheres strongly to concrete. Therefore, it penetrates fine cracks well even at low pressures and bonds the surfaces together.

StenCare® 2EP 112 has a flexible formulation. It can accommodate minor building movements without breaking or separating from the surface.

3. Application

3.1. Surface Preparation

Application surfaces must be clean and dry. Metal surfaces must be cleaned with a brush. Cracks where another product was previously used, and surfaces contaminated with oil, fuel or similar substances, must be cleaned before application.

Dust and loose materials must be removed with compressed air. Standing water interferes with the curing of **StenCare® 2EP 112**. Application can be carried out in moist cracks where no liquid water is observed.

If there is water leakage at the cracks, application must not begin until the leakage has been stopped. To prevent the material from flowing out in pressure applications on horizontal floors or in applications on vertical facades, the crack must be sealed off with **StenCare® 2EP 311** or another non-sag repair material. 1-2 cm diameter holes are drilled along the crack for filling, in 10-15 cm intervals for fine cracks and in 20-30 cm intervals for wide cracks.

A filling hole is left at the highest point of the crack. Application must not be carried out before **StenCare® 2EP 311** completely cures.

3.2. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During application, surface and air temperature must be at least 10 °C and the temperature must not drop below 10 °C for 24 hours following the application. **StenCare® 2EP 112** is ready for application when components A and B are mixed.

Epoxy-Based Injection Material for Crack Repair

Highlights

- 100% compatible with concrete
- Low viscosity
- Good penetration into fine cracks
- Flexible; readily accommodates minor movement
- Prevents water leakage and the structural and visual damage that water causes to the structure
- Long-lasting and easy to apply
- Cures slowly and offers a long application time for hot climates



The components are packaged so that one container of each yields the correct mixing ratio. In cases where a complete package will not be used, the package must be weighed and proportioned; the mix ratio stated on the package must be observed. Component B is poured into the container containing component A and the two components are mixed for 3-4 minutes at 300-500 rpm until they become homogeneous.

Because the product is transparent, observe the mixing time closely to ensure the components are mixed homogeneously. Mixed material must be used within the pot life, and thickened material must not be thinned and reused. The mixed material is placed by pouring it through the filling holes or injecting it at low pressure (2-5 atm).

Filling is carried out from the bottom to the top. When it is observed that material is coming from an upper hole, the lower hole is plugged and filling continues from the next upper hole.

3.3. Cleaning

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

4. Safety

Applicators and supervisors must read the Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be disposed of in compliance with relevant regulations and laws. The application must be carried out by skilled workers under the supervision of experts and the applicators must use all personal protective equipment required for the worksite and the task such as goggles, mask and gloves.

5. Storage

It must be stored away from open flames and ignition sources. Materials must be stored at 5-30 °C in a temperature-controlled environment, protected from daylight and moisture. Under these conditions, the material will retain its properties in unopened packages until the expiration date.

Low temperatures may cause crystallization of the product; in this case, the product can be used after being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

6. Disclaimer

This document is provided for general information and is based on **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information without prior 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 purpose and for all conditions of transport, storage, application, 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.



7. Technical Data

Property	Method	Result
Base Polymer		Epoxy
Solids Content (by weight)		100%
Color		Transparent
Hardness (Shore)	EN ISO 868	D50-60
Pot Life @20 °C		70 minutes
Tack-free Time @20 °C		12 hours
Full Cure Time		3 days
Shelf Life		1 year
Packaging		10 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time. *CE: CE marked in accordance with EN 1504-3 (R1) (DoP STN-2EP112-0001).*

