

1. Product Description

StenCare® 2EP 110 is an epoxy-based, two-component, very low viscosity injection resin for structural crack repair which can be applied by low pressure or pouring. **StenCare® 2EP 110** conforms to specification ASTM C 881/881 M, Type IV, Grade 1, Class C.

2. Uses

StenCare® 2EP 110 is used in repairing cracks on concrete and brick walls. It permanently repairs cracks in these facades and floors thanks to its high adhesion and load-bearing properties. It prevents water leakage, discoloration, and damage caused by water freezing inside the concrete.

StenCare® 2EP 110 is produced by modifying an epoxy resin with high adhesion to concrete with additives that improve flow and adhesion. Therefore, it penetrates into tiny cracks even at low pressures and provides excellent adhesion between surfaces.

StenCare® 2EP 110 is elasticized.

It can resist minor building movements without breaking or separating from the surface.

3. Surface Preparation

Surfaces to be treated with **StenCare® 2EP 110** must be clean and dry. Metal surfaces must be cleaned with a brush. Cracks where another product was previously used, and surfaces with contamination such as oil, fuel and similar, must be cleaned before application.

Dust and loose materials must be removed by pressurized air. Standing water interferes with the curing of **StenCare® 2EP 110**. Application can be carried out at moist cracks with no visible water.

If there is water leakage at the cracks, application must not be carried out before stopping the leakage. To avoid the material to flow out in applications with pressure on horizontal floors or applications on vertical facades, the crack must be isolated with **StenCare® 2EP 311** or another non-sag repair paste. 1-2 cm diameter holes are drilled along the crack for filling, in 10-15 cm intervals for tiny 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.

4. 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 110** is prepared for the application by mixing two components.

The components are packaged so that one container of each yields the correct mixing ratio. In cases where one complete package cannot 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.

Epoxy-Based Injection Material for Crack Repair

Highlights

- 100% compatible with concrete
- Low viscosity
- Excellent penetration to tiny cracks
- Elastic; compensates minor movements
- Prevents water leakage and the structural and visual damage caused by water to the structure
- Resistant to UV radiation
- Long-lasting and easy to apply



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. Mixture is filled by pouring through the filling holes or with low (2-5 atm) pressure.

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.

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

It must be stored away from open flame and sources of ignition. Materials should 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 until the expiration date in unopened packages.

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		100
Color		Transparent
Hardness (Shore)	EN ISO 48-4	D45-55
Pot Life @20 °C		30 ± 10 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 (DoP STN-2EP110-0002).*

