StenCare® 2EP 110

1. Product Profile

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.

StenCare® 2EP 110 is available in 10kg sets.

2. Uses

StenCare® 2EP 110 is used in repairing cracks on concrete and brick walls. It repairs cracks on this type of facades and floors permanently by means of its high adhesion and load bearing properties. It prevents water leakages, discolorations, damages of freezing water in concrete.

StenCare® 2EP 110 is produced by modifying highly adhesive epoxy resin with viscosity lowering and adhesion improving additives. 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

The surfaces where StenCare® 2EP 110 will be applied must be dry, free from contaminants such as oil, grease, sealant remains and loose particles. Dust and loose materials must be removed by pressurized air. Metal surfaces must be cleaned by brush.

StenCare® 2EP 110 is affected from water. 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.

In order 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 type 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.

Epoxy Based Injection Resin for Structural Crack Repair

Highlights

- 100% compatible with concrete
- Low viscosity
- Excellent penetration to tiny cracks
- Elastic; compensates minor movements
- Prevents water leakages, structural and visual damages of water on the structure
- Resistant to UV radiation
- Long lasting

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 10°C and the temperature must not drop below 10°C for the 24 hours following the application.

StenCare® 2EP 110 is a two-component material. Components A and B are packed as sets to be completely mixed. In cases where one complete package cannot be used, the package must be weighed and partitioned, and the mix ratio stated on the package must be observed. Entire component B is added into the container of component A and they are mixed for 3-4 minutes at 300-500 rpm. Since the components are transparent, mixing time must be followed in order to ensure that the components are mixed homogeneously. Mixed material must be used within the pot life and thickened materials must not be thinned and used.

Mixture is filled by pouring through filling pegs 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.

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5. Cleaning

Application devices can be cleaned by using StenSolver EP after application.

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 away from direct sunlight. Recommended storage temperature is 10-30°C. Stored unopened in these conditions, the shelf life is 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	Method	Results
Base Polymer		2 Component Epoxy
Solids Content %		100
Color		Transparent
Durometer Hardness (Shore)	ASTM D 2240	D50±5
Pot life @20°C	ASTM C 881	1 hour
Tack Free Time @20°C		12 hours
Complete Curing Time @20°C		3 days

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

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