

1. Product Description

StenCare® 2EP 231 is a two-component, cold-applied, chemically curing, epoxy-based anchorage and coating material which can be used in sloped, vertical or overhead joints, with high mechanical strength and adhesion, suitable for heavy traffic conditions. Its flexibility lets it bridge cracks on moving surfaces without breaking. It is resistant to organic and inorganic acids and alkalis, oils, fuels, antifreeze, and many chemicals. **StenCare® 2EP 231** is suitable for classification as Type III, Grade 3, Class B and Class C in accordance with ASTM C 881/C 881M.

2. Uses

StenCare® 2EP 231 is designed for applications that are subject to movement during or after the application. It can be used for bonding aggregates to concrete surfaces where skid resistance is required, for rebar doweling, and for anchoring or repair purposes on surfaces subject to traffic or movement. It can be used for repairs on sloped, vertical and downward-facing surfaces.

It has good adhesion to concrete, metal, wood and similar surfaces, providing a permanent and sound repair. It is also used as a filler or adhesive between two dissimilar surfaces. Due to its elasticity, it partially decouples the movement of the two surfaces.

3. Application

3.1. Surface Preparation

The surfaces where **StenCare® 2EP 231** will be applied must be dry, free from contaminants such as oil, grease and residues of previously applied sealant, and free of loose particles. Dust and loose materials must be removed with compressed air. Metal surfaces must be cleaned with a brush. **StenCare® 2EP 231** adheres well to many surfaces without primer; however, primer must be used in areas in contact with water and in applications on glass, plastic or rubber.

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 231** is a two-component material.

Components A and B are packaged in correctly proportioned sets. All of component B is added into the container of component A and they are mixed by hand or with a low-speed drill until a homogeneous mixture is obtained. Mixed material must be used within the pot life, and thickened material must not be thinned and reused.

Working the material into the surfaces and leaving no air voids beneath it will improve adhesion. For bonding skid-resistant aggregates, the material must be worked into the surface and the aggregates must be spread on it without delay. In applications such as rebar doweling and fixture installation, all operations must be completed within the pot life of the material. If the entire **StenCare® 2EP 231** set will not be used, the contents must be weighed and divided before mixing, and the weight-based mixing ratio must be maintained; otherwise, material properties will be adversely affected.

Epoxy-Based Flexible Repair and Coating Material (Non-Sagging Type)

Highlights

- Designed for overhead, vertical and sloped repairs
- 100% compatible with concrete
- Flexible with high mechanical strength
- Withstands harsh conditions
- Cures fast, does not disrupt traffic
- Long-lasting and easy to apply



3.3. Cleaning

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		Grey
Density		1.60 ± 0.05 g/cm ³
Consistency	ASTM C 881	2 mm
Hardness (Shore)	EN ISO 868	D45-55
Adhesion Strength	ASTM C 882	17 MPa
Compressive Modulus	ASTM D 695	720 MPa
Thermal Compatibility	ASTM C 884	Pass
Elongation at Break	ASTM D 638	>45%
Pot Life @15 °C	ASTM C 881	45 minutes
Pot Life @23 °C	ASTM C 881	30 minutes
Time to Open to Traffic @20 °C		24 hours
Cure Time for Chemical Resistance		24 hours
Shelf Life		1 year
Packaging		5 kg sets

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

