

1. Product Profile

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 reverse joints, with high mechanical resistance and adhesion, suitable for heavy traffic conditions. It is resistant to organic and inorganic acids and alkalis, oils, fuels and antifreezes and many chemicals.

StenCare® 2EP 231 conforms to specification ASTM C 881/881M Type 3, Grade 3, Class B and Class C.

StenCare® 2EP 231 is available in 5kg sets.

2. Uses

StenCare® 2EP 231 is designed for applications that are subject to movement during or after the application. It can be used for dowel bar installation, bonding of aggregates of skid resistant coatings or for any repairs on surfaces subject to traffic or movement. It can be used for repairs at sloped, vertical and reverse surfaces. It has excellent adhesion to concrete, metal and wooden surfaces, and provides a stable and durable repair. It is also used as filling or adhesive between two different surfaces. Due to its elasticity, it partially isolates movement of those two surfaces from each other.

3. Surface Preparation

The surfaces where StenCare® 2EP 231 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 231 adheres excellent on many surfaces without primer; however, primer must be used at places in contact with water and in applications on glass, plastic or rubber.

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.

Epoxy Based Concrete Repair and Coating Material

Highlights

- Ideal for overhead, vertical and sloped repairs
- 100% compatible with concrete
- High mechanical strength along with high elasticity
- Heavy-duty
- Cures fast, reduces down times
- Long lasting

StenCare® 2EP 231 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 until a homogenous mixture is obtained. Mixed material must be used within the pot life and thickened materials must not be thinned and used. Applying the material with sufficient pressure and avoiding air entrapment will improve adhesion.

For bonding skid resistant aggregates, the material should be laid on the surface and the aggregates should be spread on it without delay.

For dowel bar, tie bar installation, or similar anchorage applications, all installation steps should be completed within pot life of the product.

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		Grey
Density (A+B)		1.66 ± 0.1 g/cm ³
Durometer Hardness (Shore)	ASTM D 2240	D50±5
Bonding 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%
Gelling Time @ 20°C	ASTM C 881	15 minutes
Cure Time for Heavy Trafficability @ 20°C		12 hours
Cure Time for Chemical Resistance @ 20°C		24 hours

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