

# StenCare® 2EP231

## 1. Product Profile

**StenCare® 2EP231** 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 alkalies, oils, fuels and antifreezes and many chemicals.

It conforms to ASTM C 881/881M Type 3, Grade 3, Class B and Class C.

**StenCare® 2EP231** is available in 5 kg sets.

## 2. Uses

**StenCare® 2EP231** is designed for application 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® 2EP231** will be applied must be dry, free from contaminants such as oil, grease, sealant remains and loose particles.

Metal surfaces must be cleaned by brush. **StenCare® 2EP231** 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.

## Cold Applied, Epoxy Based, Repair and Coating Material

### Highlights

#### StenCare® 2EP231

- It is epoxy based.
- It is designed for overhead, vertical and sloped repairs.
- It has high mechanical strength along with high elasticity.
- It is heavy duty.
- It is 100% compatible with concrete.
- It cures fast, does not delay traffic.
- It is a long lasting material convenient to use.

## 4. Application

**StenCare® 2EP231** is a two component material. Components A and B are packed as sets to be completely mixed. Entire component B is poured on component A and they are mixed manually or by means of a low speed drill until a homogeneous mixture is obtained. Prepared mixture 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 kid resistant aggregates, the material should be laid on the surface and

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the aggregates should be broadcast 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. If complete set of **StenCare® 2EP231** will not be used, contents of the container must be weighed and partitioned before mixing. Mix ratio by weight must be maintained during this process, otherwise material properties are affected negatively.

## 5. Cleaning

Mixing and application tools must be cleaned with an aromatic solvent right after being used. **StenSolver CL** can be used for this purpose.

## 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 storages. 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.

## Technical Data

Property	Method	Result
Base Polymer		2 Component Epoxy
Solids Content %		100
Colors		Grey
Density (A+B)		1,66± 0,05 g/cm <sup>3</sup>
Consistency	ASTM C 881	2 mm
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 @15°C	ASTM C 881	30 minutes
Gelling time @20°C	ASTM C 881	15 minutes
Cure Time For Heavy Trafficability @20° C		12 hours
Cure Time For Chemical Resistance		24 hours

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