

1. Product Profile

StenCare® 2EP 311 ANK is a heavy duty, solvent free epoxy based, thixotropic grade chemical anchor and repair material. It has high adhesion and abrasion resistance properties, and it is resistant to chemicals. It is resistant to weak organic and inorganic acids and alkalis, oils, fuels and antifreezes and many chemicals.

StenCare® 2EP 311 ANK conforms to specification ASTM C881/C881 M Grade 3, Type I, IV, V, Class B and Class C.

StenCare® 2EP 311 ANK is available in 345ml side-by-side or 380ml coaxial cartridge pairs.

2. Uses

StenCare® 2EP 311 ANK is used for repairing old concrete surfaces, broken slab and joint edges, for rigid anchorages and dowel bar fixing. It is used indoors and outdoors, in all kinds of repair where high elasticity is not required. It has excellent adhesion to concrete, metal and wooden surfaces, and provides a stable and durable repair.

3. Surface Preparation

The surfaces where StenCare® 2EP 311 ANK 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® 2EP 311 ANK 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

StenCare® 2EP 311 ANK has two components. It is packed in cartridge pairs which all A and B components mix and react when dispensed. To apply the material, remove the cap and attach the static mixer nozzle to the cartridge. Start discharging material until a homogenous mixture received through the static mixer.

Epoxy Based Chemical Anchor and Thixotropic Repair Material

Highlights

- It is epoxy based
- It is designed for overhead, vertical and sloped applications
- It is heavy duty
- It has high load bearing properties
- It is 100% compatible with concrete
- It is resistant to chemicals
- It is a long-lasting material convenient to use.

In anchorage applications to ensure StenCare® 2EP 311 ANK wets both concrete surfaces and metal surfaces, rotate and wiggle the rod while placing in the hole. When the rod reaches the correct depth, the material must overflow out of the hole. Special attention must be paid to ensure no air gaps are left under the material during dowel bar fixing.

All applications should be complete within the pot life of the material. If the entire StenCare® 2EP 311 ANK set will not be used, the static mixer must be removed and the cap must be reinstalled after the required amount has been used. It is necessary to use a new static mixer for the next application.

5. Cleaning

Application devices can be cleaned by using StenSolver CL 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		Gray
Density (A+B)		1.65 ± 0.05 g/cm ³
Durometer Hardness (Shore)	ASTM D 2240	D80±5
Consistency	ASTM C 881	2 mm
Bond Strength (2 days)	ASTM C 882	16 MPa
Bond Strength (14 days)	ASTM C 882	>25 MPa
Compressive Modulus	ASTM D 695	1500 Mpa
Elongation at Break	ASTM D 638	1.0%
Pot life @23°C	ASTM C 881	20 minutes
Cure Time for Heavy Trafficability @20°C		8 hours
Cure Time for Chemical Resistance		12 hours

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