

StenCare[®] 2EP310

1. Product Profile

StenCare[®] 2EP310 is a heavy duty, solvent-free, pourable grade epoxy repair and coating 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 alkalies, oils, fuels and antifreezes and many chemicals.

StenCare[®] 2EP310 conforms to specification ASTM C881/C881 M Grade 2, Type I, IV, V and Class B and Class C.

StenCare[®] 2EP310 is available in **18 kg** sets.

2. Uses

StenCare[®] 2EP310 is used in repairing old concrete surfaces, broken slab and joint edges, as adherence promoter between old concrete and fresh concrete, 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[®] 2EP310** 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[®] 2EP310 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[®] 2EP310 is a two component material. Components A and B are packed as

Epoxy Based Self Leveling Repair and Coating Material

Highlights

StenCare[®] 2EP310

- It is epoxy based.
- It is heavy duty.
- Its curing speed can be adjusted to weather and job site conditions.
- 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.

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. For areas that require early trafficability or under cold ambient conditions **StenQuick EP** may be used to speed up curing. **StenQuick EP** should be added to component B or if container size does not permit that, to the mixture of components B and A.

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

Stenkim Kimyasal Maddeler San. ve Tic. Anonim Şirketi

Office: Portakal Çiçeği Sok. Ansera İş Merkezi 17/126 Ayrancı / ANKARA Tel: +90 312 442 2630 Fax: +90 312 442 2615

www.stenkim.com.tr

StenCare[®] 2EP310

surface coating application, the material should be poured on the substrate and spread with a toothed trowel. Once the material is spread, it should left to self level and cure without too much disturbance. The coated area should be kept free from vehicle exhaust and flue gases for at least an hour.

For adhesion promotion, fresh concrete should be placed before the material that has been applied on to old concrete surface becomes tack free. If the material has cured to a tack free state, another coat of the material can be applied without removing the previous coat.

For repairs and anchorage jobs with aggregates, the aggregates should be added to mixture of A and B components without delay, and all should be mixed for at least two more minutes. The moisture present on aggregate particles may lead to unexpected changes in curing time. Inadequately graded particles may lead to poor strength and application time problems. For these reasons, either three component **StenCare[®] 3EP** should be used instead of **StenCare[®] 2EP310**, or adequately graded and dried **StenSilica** aggregates should be used.

For armature fixing and dowel bar installation, pot life must be observed closely. Special attention must be paid to ensure no voids are left under the material during dowel bar fixing. If complete set of **StenCare[®] 2EP310** 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 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.

StenCare® 2EP310

Technical Data

Property	Method	Result
Base Polymer		2 Component Epoxy
Solids Content %		100
Colors		Grey
Density (A+B)		1,60± 0,05 g/cm ³
Durometer Hardness (Shore)	ASTM D 2240	D80±5
Bond Strength (2 days)	ASTM C 882	19 MPa
Bond Strength (14 days)	ASTM C 882	>25 MPa
Tensile Strength	ASTM D 638	90 MPa
Compressive Modulus	ASTM D 695	1800 MPa
Elongation at Break	ASTM D 638	%2.5
Pot life @20°C	ASTM C 881	30 minutes
Pot life @20°C	ASTM C 881	15 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.