

1. Product Description

StenCare® 3EP ANK is a heavy-duty, solvent-free, pourable epoxy anchorage material with high load-bearing strength and abrasion resistance. It is designed particularly for use in areas subject to high abrasion and for fixture mounting work. It can also be used for minor repairs on concrete.

StenCare® 3EP ANK has good abrasion and impact resistance, and it is resistant to chemical and atmospheric effects. The polymeric mixture is compatible with the thermal expansion of concrete made from Portland cement and adheres well to concrete, metal and many other surfaces.

2. Uses

StenCare® 3EP ANK is produced for use in places subject to high abrasion on concrete-paved runways, for fixture mounting, and for other anchoring work. Its impact absorption and abrasion resistance properties make it suitable for use in minor repairs.

3. Application

3.1. Application

The ambient and surface temperature must be at least 10 °C during application. The components are mixed as follows. Component B is added to Component A and mixed for 1-2 minutes; the aggregate, which is Component C of the product, is then added to the mixture without delay.

It is mixed for 1-2 minutes until homogeneous. Aggregates must not be added all at once, but must be mixed in by feeding them in, within the shortest time allowed by the mixing equipment. The prepared material is poured into the application area without waiting.

If a non-slip surface is required, additional aggregate is broadcast over the surface before the material sets. Once the material has cured enough to take foot traffic, the loose aggregate on it can be swept away. Aggregates must be selected among high hardness, abrasion-resistant materials. **StenSilica** #5-#10 (0.25-7 mm) is suitable for this purpose. The aggregates must be dried and properly graded. The following points should be considered during mixing and application of **StenCare® 3EP ANK**.

The **StenCare® 3EP ANK** mixture must be prepared in a short time with a powerful low-speed mixer. The mixture must be immediately transferred to another container and poured into the prepared area. The reason for transferring to another container is to prevent problems caused by unmixed material stuck to the container wall.

Mixed materials must never be left standing in the container. Otherwise, the exothermic chemical reaction increases the mixture temperature, which causes the reaction to accelerate. Since the material poured on the ground will lose heat due to contact with the surface, hardening starts after a reasonable time.

The poured mixture is leveled immediately and given its final shape. The material's flowability is adjusted so that the designed slope is maintained when leveling on slightly sloped surfaces. If there are high spots above the runway surface at the end of the work, they must be removed by sanding or grinding.

High-Strength Epoxy-Based Anchoring and Fixing Material

Highlights

- Withstands harsh conditions
- Solvent-free
- Primarily designed for anchoring and mounting
- 100% compatible with concrete
- Can also be used for minor concrete repairs
- Adheres strongly to concrete, metals and many other surfaces
- Long-lasting and easy to apply



In large-scale applications, the next mixture must be poured without waiting for the previously poured mixture to harden, so the whole surface is finished seamlessly. For this, the "mixing," "transfer and pouring," and "spreading and leveling" teams must work in coordination without interruption.

3.2. Cleaning

Equipment used can be cleaned at the end of the job with **StenSolver CL**.

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
Application Thickness		min. 15 mm
Hardness (Shore)	EN ISO 868	D80-85
Density (A+B+C)		1.7 ± 0.05 g/cm ³
Flame Resistance		Pass, does not ignite
Chemical Resistance; Jet Fuel, Motor Oil, Antifreeze, Salt @20 °C	ASTM D 1308	Pass
Pot Life @20 °C		30 minutes
Tack-free Time @20 °C		3 hours
Ready for Light Foot Traffic @20 °C		12 hours
Time to Open to Heavy Traffic @20 °C		24 hours
Cure Time for Chemical Resistance @20 °C		5 days
Shelf Life		1 year
Packaging		10 kg sets

Stenkim® reserves the right to make changes to the values in this table at any time. *CE: CE marked in accordance with EN 1504-3 (R1) (DoP STN-3EPANK-0001).*

