

1. Product Description

StenCare® 3PU ASC is a special 100% solids, three-component, polyurethane-based elastomeric mortar. Specifically engineered for application at concrete-to-asphalt interfaces, this material effectively absorbs dynamic loads from heavy traffic to ensure long-lasting performance. **StenCare® 3PU ASC** is offered for sale in sets consisting of components A, B and C.

2. Uses

StenCare® 3PU ASC is used to form expansion joint headers for different expansion joint systems and to repair existing joint headers. It serves as an ideal filler material between substrates such as concrete-to-concrete, concrete-to-asphalt and concrete-to-steel. It is also suitable for localized asphalt repairs and for securing drainage grates.

3. System Design

Current status and application objective must be defined with all aspects during system design. For **StenCare® 3PU ASC**, a minimum application thickness of 20 mm per coat is recommended; however, the single-coat thickness must never exceed 100 mm. On surfaces where the slope exceeds 3%, preliminary measures must be taken to prevent the material from flowing.

4. Application

4.1. Surface Preparation

Proper and correct surface preparation is of great importance. Concrete surfaces must be entirely sound, clean and dry; free from frost, curing compounds, waterproofing chemicals, oil stains, friable material and dust. Newly poured concrete must have cured for at least 14 days.

Application on damp or wet concrete surfaces is strictly prohibited. For steel substrates, all oxidation must be removed and the surface must be roughened by grinding until "white metal" (SP-10 level) is achieved. Ambient temperature during application should be between 10 °C and 32 °C.

Application must be avoided if the surface temperature is below 5 °C.

4.2. Mixing

StenCare® 3PU ASC comes as a ready-to-use set in three separate components. Mixing should be performed using a suitable mixer and a heavy-duty machine. Component A is first added to Component B and mixed for at least 30 seconds until uniform.

Component C is then added to the proportioned A - B mixture and mixing continues for a further 1-2 minutes until a completely homogeneous structure is achieved. There must be no unmixed material left on the walls or at the bottom of the container.

Polyurethane Based Elastomeric Repair and Expansion Joint Mortar

Highlights

- Absorbs dynamic traffic loads and distributes them uniformly across the system
- Waterproof
- Resistant to UV, ozone, de-icing chemicals and abrasives
- Cures rapidly and requires no external heaters
- Dissipates heavy and repetitive impact loads to prevent structural damage
- Can be applied to different substrates without a primer



4.3. Application of the Material

The mixture is poured onto the surface and quickly spread and placed using a steel trowel or appropriate tools. Given the 20-minute pot life at 20 °C, the mixed material must be applied to the surface immediately without delay. During application, the thickness of the material in a single layer must not exceed the limit of 100 mm.

The internal reaction of the material generates heat, so there is no need to use external heaters.

5. Cleaning

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

6. Safety

Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

7. Storage

It must be stored away from open flame and sources of ignition. Materials should 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 until the expiration date in unopened packages.

Low temperatures may cause crystallization of the product; in this case, the product can be used after heating and homogenizing at +20 °C. The product must be stirred thoroughly before use after prolonged storage.

8. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without 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 application and for all conditions of transport, storage, handling, 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.



9. Technical Data

Property	Method	Result
Mix Ratio (A+B/C)		1/5
Density		2.2 g/cm ³
Pot Life @20 °C		20 minutes
Concrete Adhesion Strength		> 4 MPa (concrete failure)
Asphalt Adhesion		Good
Compressive Strength (14 days)		49 MPa
Hardness (A+B)		50 (Shore D)
Elongation at Break		150%
Tensile Strength		7.30 MPa
Shelf Life		1 year
Packaging		30 kg sets

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

