

1. Product Description

StenCare® 3PU ASC is a special 100% solids, three-component, polyurethane-based elastomeric mortar. Suitable for application at concrete and asphalt junctions, 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 is an ideal filler for concrete-to-concrete, concrete-to-asphalt, and concrete-to-steel interfaces. It is also suitable for localized asphalt repairs and for securing gratings.

3. System Design

During system design, all aspects of the existing conditions and the application objective must be defined. 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%, preventive measures must be taken to prevent the material from flowing.

4. Application

4.1. Surface Preparation

Proper surface preparation is of great importance. Concrete surfaces must be entirely sound, clean and dry and must be 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 abrasive blast cleaning until "near-white metal" (SP-10 level) is achieved. Ambient temperature during application must 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 consisting of three separate components. Mixing must 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 added whole, without splitting it, to the proportioned A-B mixture and mixing continues for a further 1-2 minutes until the mix is completely homogeneous. There must be no unmixed material left on the walls or at the bottom of the container.

Polyurethane-Based Elastomeric Mortar for Repair and Expansion Joints

Highlights

- Absorbs dynamic traffic loads and distributes them uniformly across the system
- Water-impermeable
- Resistant to UV, ozone, de-icing chemicals and abrasives
- Cures rapidly and requires no external heaters
- Absorbs heavy and repetitive impacts 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. 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.

4.4. Cleaning

The equipment used can be cleaned with **StenSolver PU** at the end of the work.

5. 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.

6. 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.

7. 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.



8. Technical Data

Property	Method	Result
Mix Ratio ((A+B):C)		1/5
Density		2.2 g/cm ³
Pot Life @20 °C		20 minutes
Adhesion Strength to Concrete		> 4 MPa (concrete failure)
Adhesion Strength to Asphalt		Good
Compressive Strength (14 days)		49 MPa
Hardness (A+B)	EN ISO 868	D50
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.

