

1. Product Description

StenCare® 2MA 314 is a heavy-duty, solvent-free, pourable methacrylate-based concrete repair material. It cures fast and offers high adhesion, abrasion resistance, and chemical resistance. It is resistant to weak acids and alkalis, oils, fuels, antifreeze and many other chemicals.

2. Uses

Its very rapid cure makes **StenCare® 2MA 314** suitable for repairs with a depth of 25-60 mm in airports, runways and aprons, taxiways, highways, bridges and parking areas where fast concrete repair is required. It creates a non-slip surface, allowing all types of traffic. **StenCare® 2MA 314** is used in repairing old concrete surfaces, broken slab and joint edges and similar locations.

It can be used both indoors and outdoors for all kinds of repair where elasticity is not required. It has good adhesion to concrete, metal, wood and similar surfaces, providing a permanent and sound repair.

3. Application

3.1. Surface Preparation

StenCare® 2MA 314 is applied to concrete surfaces without requiring primer and adheres well; however, primer must be used in areas with continuous water contact. The surfaces to which the material will be applied must be dry, clean of contaminants such as oil, grease and previously applied sealant residue, and free of loose particles. Metal surfaces must be cleaned with a brush.

3.2. Application

StenCare® 2MA 314 is a two-component material. Components A and B are packaged in correctly proportioned sets. First, component A is mixed on its own. After mixing for at least 30 seconds, the entire component B is poured onto component A and mixed for 1-2 minutes with a low-speed drill until a homogeneous mixture is obtained. The prepared material is poured into the application area without waiting. **StenCare® 2MA 314** maintains its pourable consistency for approximately 10 minutes; however, to prevent possible surface defects, it is recommended to complete the application within 5 minutes.

Material that has begun to thicken must not be diluted for reuse. Application must be done in layers, each 25-60 mm thick. Wait at least 20 minutes between coats.

In application areas with high thermal movements and around the repair area, joints must be cut and the joints filled with StenSeal® brand joint sealants. The cure time of each layer is affected by the application thickness, concrete temperature, and ambient temperature. However, as long as application conditions are observed, the total thickness of the application does not affect the time before the repair area can be reopened to traffic.

The time before opening to traffic is calculated from the moment the last coat is applied. At temperatures of 20-30 °C, the repair area can be opened to traffic within 1 hour. For applications below 15 °C or above 30 °C, contact our technical department.

Methacrylate Concrete Repair Material

Highlights

- Fast curing; can be used for all emergency repairs
- Withstands heavy traffic conditions
- High load-bearing capacity
- Creates a non-slip surface
- 100% compatible with concrete
- Resistant to chemicals
- Long-lasting and easy to apply



3.3. Cleaning

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

4. Safety

Adequate ventilation must be ensured in enclosed areas. 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.

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
Color		Sand / Grey
Base Polymer		Two-Component Methacrylate
Density		2.2 ± 0.1 g/cm ³
Application Thickness (per coat)		Minimum 25 mm - Maximum 60 mm
Compressive Strength (2 hours) @20 °C	EN 12190	> 60 MPa
Compressive Strength (24 hours) @20 °C	EN 12190	> 90 MPa
Adhesion Strength	EN 1542	> 6 MPa
Shrinkage During Cure	EN 12617-1	< 0.3%
Pot Life @20 °C		10 minutes
Time to Open to Traffic @20 °C		1 hour
Full Cure Time		1 day
Cure Time for Chemical Resistance		1 day
Shelf Life		1 year
Packaging		18 kg sets

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

