

1. Product Profile

StenCare® 2MA ANK is a heavy duty and rapid curing type, solvent free, non-sagging, injectable two component epoxy-methacrylate based anchoring system. It has superior bond performance in both cracked and uncracked concrete.

StenCare® 2MA ANK is available in 345ml side-by-side or 380ml coaxial cartridge pairs.

2. Uses

StenCare® 2MA ANK used as a chemical anchor in rigid installations, mounting of steel dowels or threaded anchor rods and inserts. Used as an adhesive in strengthening applications against earthquakes. It is suitable for every anchorage job between concrete and steel.

3. Surface Preparation

The application surfaces must be clean. Drilled holes and cracks must be cleaned before **StenCare® 2MA ANK** is applied. Dust and loose materials must be removed by mechanical means using a scrub brush and pressurized air. Applying only air might be insufficient to remove dust.

Metal surfaces must be mechanically cleaned by a brush and solvents.

StenCare® 2MA ANK adheres very well to dry concrete surfaces and mechanically holds on to oil free metal surfaces.

4. Application

StenCare® 2MA ANK has two components. It is packed in cartridge pairs which all A and B components mix and react when dispensed. To apply the material, remove the cap and attach the static mixer nozzle to the cartridge. Start discharging material until a homogenous mixture received through the static mixer. Afterwards dispense material into the hole and insert the rods.

To ensure **StenCare® 2MA ANK** wets both concrete surfaces and metal surfaces, rotate and wiggle the rod while placing in the hole. When the rod reaches the correct depth, the material must overflow out of the hole.

Epoxy-Methacrylate Based Chemical Anchor

Highlights

- Used for anchoring
- Suitable for sloped, vertical or overhead applications
- High mechanical strength
- Resistant to heavy conditions
- Superior bond performance
- 100% compatible with concrete
- Fast Curing

All applications should be complete within the pot life of the material. The material must be injected bubble-free and filled starting from the bottom of the hole.

If the entire **StenCare® 2MA ANK** set will not be used, the static mixer must be removed and the cap must be reinstalled after the required amount has been used. It is necessary to use a new static mixer for the next application.

5. Cleaning

Application devices can be cleaned by using **StenSolver CL** after application.

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 storage away from direct sunlight. Recommended storage temperature is 10 – 30°C. Stored in the right conditions, unopened material will keep its properties until its shelf time indicated on packing.

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.

9. Pulling Results

Type	Diameter	Drill Hole Diameter	Drill Hole Depth	Maximum Strength	Result
Rebar	8 mm	12 mm	135 mm	33.8 kN	Steel failure
Rebar	12 mm	16 mm	195 mm	67.7 kN	Steel failure
Rebar	16 mm	20 mm	260 mm	123.6 kN	Steel failure
Anchor Rod	8 mm	12 mm	125 mm	22.7 kN	Steel failure
Anchor Rod	12 mm	16 mm	185 mm	55.4 kN	Steel failure
Anchor Rod	16 mm	20 mm	245 mm	93.3 kN	Steel failure

10. Technical Data

Properties	Results
Base Polymer	2 Component Epoxy-Methacrylate
Solids Content %	100
Color	White-Gray
Density (A+B)	1.75 ± 0.05 g/cm ³
Durometer Hardness (Shore)	D90±5
Compressive Strength (4 hours @ 20°C)	>100 Mpa
Compressive Strength (48 hours @ 20°C)	160 MPa
Pot life of the mixture @20°C	3 minutes
Full load time @ 20°C	4 hours
Cure Time @20°C	48 hours

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