

# MC-AnchorSolid E820

Highly reactive anchor adhesive for bonded anchors in non-cracked concrete



## PRODUCT PROPERTIES

- Ready to use 2-component epoxy-based anchor adhesive
- Suitable for dry and wet non-cracked concrete
- Applicable with threaded rods and rebars
- Rapid strength development for early initial loading
- High compressive and tensile strength
- Thixotropic and stable for vertical and overhead application
- Very low application temperature
- REACH exposure: water contact permanent, inhalation periodic, processing and application
- Environmental Product Declaration EPD

## AREAS OF APPLICATION

- Anchoring work for static and quasi-steady loads in horizontal, vertical and overhead areas
- Approved system for use in uncracked concrete from C20/25 to C50/60
- Anchoring for dry and permanent wet interior and exterior components, with and without especially aggressive conditions
- Anchoring of threaded rods and rebars for fixings of attachments e.g. consoles, railings, storage racks, awnings, scaffolding, suspended ceiling, building technology, etc.
- Approved as bonded anchor according to European Technical Assessment (ETA-15/0506)
- Manual application with the MC-Fastpack Power-Tool

## APPLICATION ADVICE

**Preparatory measures:** Prior to application, the structure must be examined according to the state of the art and the rules of technology, and an injection concept must be planned.

**Intended use:** The preparation and application of anchoring works with MC-AnchorSolid E820 has to be done in consideration of the European Technical Assessment (ETA-15/0506) and all there noted design and application instructions. The application of MC-AnchorSolid E820 out of these instructions is not allowed.

**Mixing the components:** Components A and B of MC-AnchorSolid E820 are mixed as they pass through the static mixer of the cartridge system as application proceeds and can be processed directly.

The working time of the resin depends on the ambient temperature. Cooling the cartridges can extend the working time. Heating shortens the working time.

**Application:** Two-component injection is implemented with the MC-Fastpack Power-Tool (interchangeable cartridge tray 1:1/2:1) at low injection pressure. Depending on the application, MC-AnchorSolid E820 is inserted into the anchor holes with extension tubes or hoses, from back to front, without cavities.

The processing time of the MC-AnchorSolid E820 is influenced by the temperature of the adhesive, the temperature of the substrate and the layer thickness of the adhesive. If the work is interrupted longer than the processing time allows, the static mixer must be replaced with a new one. Opened cartridges must be closed with the original cap and can be used again promptly ( $\geq 7$  days).

Application work should cease once component/substrate temperatures fall below 5 °C.

Ensure compliance with the information given in the specifications and the Safety Data Sheets.

**Load Data:** All given load data is based on a correct application (according to application instruction) and in compliance to all values and conditions in accordance with ETA-15/0506.

**Special notes:** Chemical exposure and exposure to light can lead to changes in color that do not affect usability.

**Equipment cleaning:** The cartridge system means that the equipment is unlikely to need cleaning. If

## APPLICATION ADVICE

soiling does occur, all solvent-resistant tools can be cleaned with MC-Cleaner eco or thinner product MC-Verdünnung EP. Material that has reacted or set will need to be removed mechanically.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	parts by volume	2 : 1	comp. A : comp. B
Curing time ( $T_{cure}$ )	hours	approx. 12 - 96	dependent on temperature and substrate moisture content (per ETA-15/0506)
Dowel diameter	mm	8 - 20	ETA-15/0506
Moisture condition, bore hole		dry and wet	ETA-15/0506
Working time ( $T_{gel}$ )	minutes		ETA-15/0506
		approx. 7	at 20°C
Consistency		pasty	
Compressive stress (maximum)	N/mm <sup>2</sup>	approx. 85	EN ISO 604
E-modulus	N/mm <sup>2</sup>	approx. 5,800	EN ISO 178
Application conditions	°C	2 - 40	component and subsoil temperature
Density	kg/dm <sup>3</sup>	approx. 1.5	EN ISO 2811-1

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

equipment cleaning agent	MC-Verdünnung EP (thinner), under no circumstances should water or aqueous cleaning agents be used		
delivery form	400 ml double-chamber cartridge with a volume ratio of 2 : 1 8 cartridges with 10 static mixers per box.		
colour shade	Beige		
Storage	Can be stored in original sealed packages at temperatures between 10°C and 25°C in dry conditions for at least 24 months.		
packaging disposal	Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.		

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GHS CODE : RE30

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2100004941]