



MC-Ballastbond 60

Sprayable special resin for ballast bonding

Product Properties

- Low-viscosity, epoxy-based duromer resin
- Solid bonding
- Pressure resistant
- Tensile strength
- Viscoplastic
- REACh-assessed exposure scenarios: periodical water-contact, application

Areas of Application

- Ballast bonding on railway embankments and railway tracks (application under dry conditions)
- Bonding of loose rock

Application

Preparation

Before application, an examination of the ballast track / ballast surface must be carried out according to the state of the art and the current technical standards. The ballast to be bonded should be dry, clean and free from any separating components.

Mixing

MC-Ballastbond 60 consists of two components, component A (base) and component B (hardener). They have to be mixed homogeneously according to the advised mixing ratio and must be thoroughly mixed using slowly rotating stirrers.

After mixing the resin should be filled into clean container.

The pot life depends on the prepared amount and the ambient temperatures.

Application

The material is applied evenly to the ballast surface via a lance with a special nozzle. The amount of material per m² depends on the individual job.

For track ballast a consumption of 1 - 2 l per m² per 10 cm penetration depth can be calculated.

Work must be stopped at temperatures below + 8 °C.

Detailed information on the application of MC-Ballastbond 60 can be found in the corresponding method statement.

Cleaning

Within the application time all equipment may be cleaned with the MC-Verdünnung EP (MC-Thinner EP). Partially or completely cured material can only be removed mechanically.



Technical Data for MC-Ballastbond 60

Characteristic	Unit	Value*	Comments
Mixing ratio	p. b. w. p. b. v.	3 : 1 2.66 : 1	component A : component B component A : component B
Density	kg/dm ³	approx. 1.1	DIN 53 479
Viscosity	mPa·s	approx. 500	DIN EN ISO 3219
Compressive strength 7 d	N/mm ²	approx. 30	DIN EN 196 T1
Tensile strength 7 d	N/mm ²	approx. 17.5	DIN 53 455
Elongation at break	%	approx. 10	DIN 53 455
Application time	minutes	approx. 20 - 25	MC-Ballastbond 60
Glass transition temperature	°C	approx. 30	DIN EN 12 614
Application conditions	°C	8 to 35	temperature of structural part, air and material
	%	≤ 85	relative humidity
	K	3	above dew point

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-Ballastbond 60

Colour	transparent
Cleaning agent	MC-Verdünnung EP (MC-Thinner EP) Water or water-based cleaners must not be used under any circumstances
Delivery	10 kg and 30 kg pack
Storage	Can be stored in original sealed packages at temperatures between + 10 °C and + 35 °C in dry conditions for at least 24 months. The same requirements are valid for transport.
Disposal	Packs must be emptied completely.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets. GHS CODE: RE1

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 09/19. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.