



Building for the future

The patented method of sleeper crack grouting®

// Life-extending renovation of concrete
sleepers for track and turnout

Procedure approved by DB according to their standard for the treatment of cracks in prestressed concrete sleepers in the ballasted track and slab track!

The patented method of sleeper crack grouting® is a maintenance method that extends the service life of sleepers and turnout sleepers with unacceptable cracks (usually up to 5 mm).

The cracks are preserved by covering them with a slightly raised epoxy resin bridge, which has been confirmed in its long-term effectiveness by on-site and laboratory tests. Experience has also been gained in the repair of concrete sleepers after train derailments.

An economic application is achieved in most cases for those:

- ... the technical improvements mentioned above are necessary due to the condition of the equipment.
- ... the postponement of an otherwise due renewal is necessary for planning and/or rationalisation reasons (postponement of major projects, bridging until conversion).
- ... a clear reduction in annual costs is to be achieved by extending the service life or reducing maintenance costs.

As grouting is only carried out with small equipment, work can be carried out without blocking the track during train breaks of > 5 minutes - "work under rolling wheels".

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Top performance thanks to many years of experience in implementing track construction sites in the infrastructure sector of DB Netz AG and public transport through technical and operational expertise.



Your benefit:

- 30 - 40 % faster and even 60 to 80 % cheaper than the low-pressure injection on used so far.
- Extension of the service life of the sleepers up to five years.
- Up to five years guarantee on the grouting.
- No track closures: Work during train breaks > five minutes and thus possible under "rolling wheels".
- Track is immediately ready for operation again.
- For use with concrete sleepers in ballasted track as well as in slab track.
- Cracks up to 5 mm can be repaired.
- Multiple treatments of cracks are possible without any problems.
- Optimal cost/benefit ratio.
- CO₂ reduction on the basis of longer availability of the infrastructure.
- Technical and operational competence:
- Rhomberg Sersa has many years of experience in the network of DB Netz AG as well as in the public transport.
- Rhomberg Sersa Deutschland is approved by DB Netz AG for the crack treatment of concrete sleepers
- All-round service from stocktaking in the run-up to the track clearance.

Rhomberg Sersa Deutschland

Groß-Berliner Damm 86-88

12487 Berlin

T + 49 30 670695-0

info.berlin@rsrg.com

www.rhomberg-sersa.de

Rhomberg Sersa Rail Group

Mariahilfstraße 29 | 6900 Bregenz | T +43 5574 403 0