

HÜRLIMANN
RAILTEC AG

HRT-fix
BRIDGE

«BRIDGE»

Track Transitions – Reducing Dynamic Loading and Protecting Track and Rolling Stock.
Where different track support systems meet, intelligent technology provides a controlled and reliable transition.

The transition between **ballasted track and slab track** places high demands on the track system. Differences in stiffness, compaction and elasticity result in increased loading at the wheel-rail interface.

This is precisely where our «BRIDGE» solution comes in. Through **graduated, full-area bonding of the ballast, installed in layers using fully coated ballast stones**, the stiffness within the transition zone can be specifically adjusted.

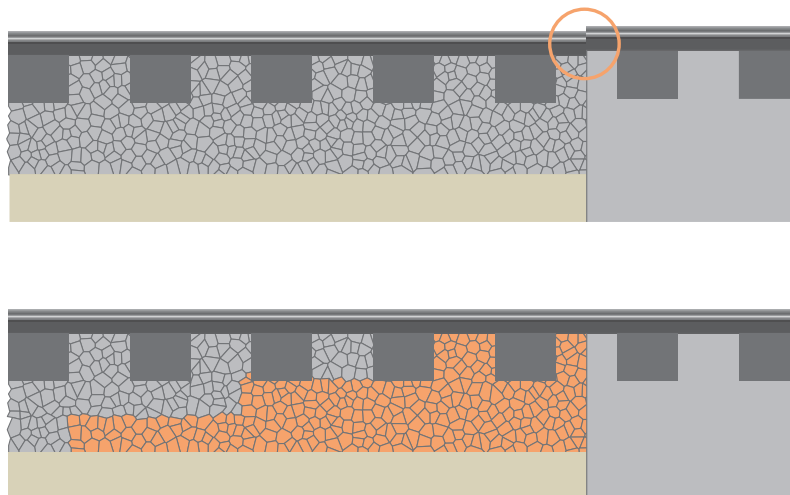
This creates a uniform and stable track transition **that absorbs and transfers forces along the length of the transition in a controlled manner according to operating speed.**

The result is immediately noticeable: **greater track stability, improved ride comfort and reduced dynamic loading** on both the track and rolling stock.

The technology also demonstrates its strengths at level crossings. Full-area bonding beneath the rubber crossing panels reduces movement and settlement within the ballast bed. The transition area remains permanently stable, increasing the service life and reliability of the structure.

Less movement. Greater stability. Lower costs. A long-lasting solution.

A precisely engineered solution for transition zones that withstand high levels of loading every day.



Globally **unique** technology

With our proprietary, globally patented application technology, we have developed a unique approach to automated ballast bonding. Developed over many years and proven across numerous projects, the system enables precise, efficient and controlled bonding – even under demanding conditions.

- ✓ Proprietary, globally patented process
- ✓ Fully automated, self-monitoring application process
- ✓ Up to 4,000 m bonding capacity per hour
- ✓ Complete documentation of all relevant process data
- ✓ Engineered bonding performance that can be calculated and verified
- ✓ Up to 70% cost savings compared with conventional methods
- ✓ Significantly fewer personnel required on or near the track

Our technology has made ballast bonding automated, standardised and verifiable, setting a new benchmark for the environmentally responsible application of synthetic resins in railway track construction.



Innovation meets **environmental** responsibility!

Our innovative, in-house developed application technology sets new standards for precision. Precise dosing of our synthetic resin binders helps prevent incompletely mixed resin components from being washed out on contact with water and entering the groundwater.

THE RESULT

- ✓ Precise dosing on every application
- ✓ Enhanced protection of groundwater
- ✓ Consistent quality through automated application technology

For us, sustainability is not a trend, but a responsibility to society and future generations!

Put our experience to work on your project.



Submit a Project

Send us your project details.

We will undertake a feasibility assessment and provide an initial cost estimate.



Personal Consultation

Our team will be pleased to discuss your requirements and provide expert advice on your project.

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