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ELTECPUR® rail

Elastic moulded parts made from eco-friendly rubber granules

ELTECPUR® rail MULTIPART TRACK SYSTEM

Insulation system for tracks mounted on sleepers and base plates

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HET ELASTOMERTECHNIK

HET and Tradition

HET Elastomertechnik GmbH, established in 1991, manufactures moulded parts using high-quality recycled rubber. Our core business is the production of rail insulation systems for metropolitan railways. For this sector, we produce components for various track systems and track crossing systems as individual solutions for local rail traffic for streetcars world-wide.

Our company covers everything from the development to the production of these systems. Close cooperation with our customers and our own continuous technical production developments have enabled us to repeatedly introduce innovations, which we have registered and received numerous patents for.

THE HEART OF OUR COMPANY

We are committed to providing our customers with a cost-effective solution that enables them to acoustically and electrically insulate streetcar tracks and railway tracks, while meeting noise reduction and vibration minimisation requirements, as well as compliance with the electrical requirements of EN 50 122-2.

And we do this without losing sight of the respective project specifications and simultaneously ensuring international standards are always met.

Our references include many thousands of kilometers of track in Europe and further abroad. Numerous transport companies inside and outside of Germany have been using our ELTECPUR® rail insulation systems for many years. Our customers place their trust in our many years of experience and our use of state-of-the-art technology.

At our company, the following important criteria are always a priority during development:

- Cost-effectiveness
- Compatibility with road structures
- Eco-friendliness
- Vibration damping properties
- Easy installation

Customized Solutions

ELTECPUR®rail MULTIPART and ELTECPUR®rail MULTIPART PLUS SYSTEMS were developed for sleeper or ribbed plate construction and are suitable for both road and grassed tracks.

Our insulating rail filler systems ELTECPUR®rail MULTIPART and ELTECPUR®rail MULTIPART PLUS not only fill the rail chambers; with their elastic properties and smoothest possible outer surfaces they also mechanically decouple the elastically supported tracks from the rigid road structure.

ELTECPUR®rail MULTIPART SYSTEM for bituminous joint sealant

ELTECPUR®rail MULTIPART PLUS SYSTEM for bituminous joint sealant

They are also instrumental in reducing structure-borne sound, airborne sound, corrosion and stray current. This additionally includes the effective insulation of all components attached to streetcar tracks (such as switch control boxes, rail gauge tie rods and more). They also make an ideal foundation for joint sealing compounds, either elastomer- or bitumen-based.

The system consists of two top parts (inner and outer element) with a length of 1,500 millimeters and two bottom parts, whose length varies depending on the sleeper/fastening distance. The elements are manufactured to precisely fit the espective rail profile,

ELTECPUR®rail MULTIPART SYSTEM for grassed track

ELTECPUR®rail MULTIPART PLUS SYSTEM for grassed track

with the lower elements engaging and overlapping under the rail foot. This simple principle ensures that the rail foot is well-insulated and remains protected while the concrete is being poured. The space left between the chamber filler system and the rail foot ensures the vertical deflection of the rails is not impeded (with elastically mounted tracks). Individual profiles are manufactured to order and, in consultation with the customer, customised to fit the respective superstructure.

ELTECPUR®rail MULTIPART SYSTEM for PU joint sealant

ELTECPUR®rail MULTIPART PLUS SYSTEM for PU joint sealant

Additional variations of this system have been designed for specific applications. If desired, the upper parts can be extended to just below the top of the rail (TOR), avoiding the need for potentially complex rail joint sealing.

To make the handling even easier, we developed and patented ELTECPUR®rail MULTIPART PLUS. Here, specially manufactured compressible disks are used at both ends of the lower parts. This system guarantees minimised cutting efforts and better fitting accuracy on the construction site, especially when using variable sleeper spacing.

ELTECPUR®rail MULTIPART SYSTEM TOR version

ELTECPUR®rail MULTIPART PLUS SYSTEM TOR version

The Advantages of ELTECPUR® rail MULTIPART TRACK SYSTEMS

The distinct advantage of ELTECPUR® rail MULTIPART SYSTEMS is their easy handling combined with very high quality. They are quick and simple to install, and they ensure effective sealing of the rail base. No installation aids are needed thanks to the product's clamping function. ELTECPUR® rail MULTIPART SYSTEMS can be used for all rail types after checking.

- Vibration damping
- Electrical insulation / waterproofing
- Stability
- Compatibility with both bituminous and elastomer joint sealants
- Handiness / precision fit
- 100% recyclable
- Positive ecological footprint
- No maintenance necessary

Technical data:

- Bulk density: ~1.1 g/cm³ (DIN 52102-RE-VB)
- Material properties in accordance with DIN 45673-8
- Resistance to water and deicing salts in accordance with sections 6.4.3 and 6.4.4
- Resistance to aging in accordance with section 6.4.5
- Electrical insulation in accordance with DIN EN 50122-2
- Heat resistance within the range of surface welding temperatures (+300°C)

References

We have successfully implemented numerous projects of various sizes for our customers. HET Elastomertechnik GmbH is in a position to provide references throughout Europe, Asia, North America, Northwest Africa, the Russian Federation and the Middle East.

All of the brochures and information material we provide are intended to advise you to the best of our knowledge. However, their content is not legally binding. We reserve the right to make technical changes.

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Updated 07/2026

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QUALITY AND SERVICE – OUR KEY TO SUCCESS