



# Erapol TrackCoat

Erapol TrackCoat is a three dimensional, 100% polyurethane resin system used to bond, strengthen and stabilise individual stones in railway-track ballast.

The ballast layer is the most important component of railway track infrastructures. It is subject to both heavy traffic load and exposure to environmental changes. As a result, the ballast bed deforms and degrades, highly affecting the performance of the railway track and ultimately leading to increased maintenance costs.

Better design of ballasted foundations can provide increased track performance and ensures maintenance costs are reduced. These design techniques combined with the use of TrackCoat, can lead to improved performance of the ballast for many years to come.



## Benefits of using a Bonded Ballast System

### No Moving Ballast

Using TrackCoat to bond individual ballast stones prevents the stones from moving, by fixing them into an exact position. As a result, the effects of dynamic load are significantly reduced over an extended period of time; limiting wear of the ballast.

### Long-Lasting and Cost Efficient

Due to the durable nature of TrackCoat, the cost-efficient application of the resin means that installation and labour costs are recovered in a very short amount of time.

TrackCoat also enables the bonded ballast to be refilled, re-used or re-bonded making it a cost - effective alternative.



*\*Please note: Bonded ballast has been coated with Safety Fleck*

### Transition Areas

TrackCoat can be applied in transition areas between the ballast and solid track. These are normally characterised by varying degrees of composition of ballast stone, compaction of the track sub super structure and base layers. Also involved are the differentials of elastic values and settling processes.

Maintaining the safety of the track requires a high level of maintenance, which is clearly reduced when TrackCoat is used to bond the ballast.

### No Restriction on Drainage Capacity

Due to the selective bonding of the stones at contact points, the drainage capacity of the ballast will be fully maintained, even during heavy rainfall. With TrackCoat there is no risk of erosion or displacement of the ballast.

As bonded ballast surfaces have excellent accessibility, emergency paths can be bonded using TrackCoat.

### Increased Resistance to Lateral Shift

Moderate ballast at the sleeper head can lead to shifts in the track, which occur predominately in bends, points and platforms. By using TrackCoat to prevent the ballast from moving, it also increases the ballast's resistance to lateral shift.



## Why use Erapol TrackCoat?

- Easy to use with convenient 1:1 parts by volume mix ratio
- Easily processed through plural spray machines
- Fast application time with tracks returned to service within two hours
- The low application viscosity of the resin improves penetration, resulting in stabilised ballast at various depths
- Flexibility to apply TrackCoat in many applications for railway owners and railway maintenance companies
- TrackCoat can also be used to fix ballast in areas where vandalism may occur
- Solvent free, therefore VOC free

## Why Era Polymers?

- Australian owned and operated company
- Short delivery lead times to anywhere in Australia
- ISO 9001 certified company
- NATA accredited laboratory
- Quick and responsive local technical and customer support

*For further information, please contact your local Era Polymers Sales Representative.*

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