



CASE STUDY

Lauterbad Viaduct



At a

Client: MBS
Sandblasterarbeiten
GmbH & Co. KG

Location: Freudenstadt,
Germany

Application: Railway viaduct
renovation.

Product: GMA PremiumBlast™

**Project
Scope:** Abrasive blasting and
painting on 5,000 m² of
steel bridge.

New Corrosion Protection for Lauterbad Viaduct for the next 50 years

A well known viaduct in Lauterbad (Freudenstadt) was extensively renovated From June 2022 to March 2023.

Built between 1884 and 1886, the 34m high viaduct spans 213m across the Lauter river. The impressive half-timbered structure has since served as a railway bridge for the Kinzig Valley Railway. The entire route belongs to DB Netz AG.

The Lauterbad viaduct is a listed heritage structure, and as much as possible, all its original components should be preserved despite the extensive renovation work. The scope of the project was to renew the corrosion protection on the steel structure for 40 to 50 years. Therefore, the work and materials from contractors in all trades need to be of high quality.

MBS Sandstrahlarbeiten GmbH & Co. KG (MBS) was commissioned to complete the corrosion protection work. The scope comprised of abrasive blasting and painting (five layers) of approximately 5,000 m² steel surface in compliant with the ZTV-ING standard, and within a tight timeframe.

MBS is a recognised and leading corrosion protection company in Baden-Württemberg, and in Greater Southern Germany. The company also specialises in bridge structures. The owner-managed company stands for conscientious, motivated and timely work.

Due to a proven track record, MBS chose GMA PremiumBlast™ as the preferred blasting abrasive for this project. The biggest advantage of GMA Garnet™ was the lower abrasive

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Higher productivity

Superior cleaning rate against other abrasives.



Cost Effective

Lower garnet consumption, labour, clean up & disposal cost.



Superior Surface Finish

Exceptionally clean surface & uniform profile.



Safer

Meets all industry, government safety and environmental standards.



Benefits of GMA PremiumBlast™ Garnet

- Faster cleaning speed, especially for projects with tight timeframes.
- Lower consumption and disposal efforts. Reduced downtime and unnecessary costs on material handling concurrently.
- Good price-performance ratio leads to cost-savings.
- On-site technical service by GMA's experienced team.

consumption compared to alternative expendable abrasives such as coal, nickel or copper slags.

Moreover, the concerted effort from onsite handling (loading/unloading) and cleaning to disposal was significantly reduced coupled with the professionalism of the specialist MBS team made it possible to achieve higher cost savings. In fact, the budgeted blasting media consumption was reduced by another 20% over the time of the project.

Furthermore, GMA PremiumBlast™ garnet was readily available to MBS in a stable silo system on-site, and three blast pots can be operated and filled at the same time. On one hand, project downtime is significantly reduced with

a faster filling of blast pots, and on the other hand, these were carried out every 1.5 to 2 hours due to reduced abrasive flow and consumption.

MBS managing director Mr. Buttenmüller praised GMA's delivery performance as 'very good, fast and competent'.

"The GMA representatives were a great support to us, and we are very satisfied with the service, the delivery reliability and the delivery times," Mr Buttenmüller said.

The GMA team would like to thank everyone involved for the successful cooperation in this complex but exciting project!.



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