

PROJECT PROFILE

PROJECT

Rehabilitation of the Memmelsdorf main street close to Bayreuth in Germany.

APPLICATION

Due to the traffic on the Memmelsdorf main street in 2009 – 2011 was necessary to repair the street in 2011. It was complete rehabilitation of 400 years old road. The geogrid ADFORS GlasGrid GG100 was used for the prevention against the cracks for the first time in Germany. The contractor has made the manual installation of the grid under the asphalt overlayer.

PRODUCT

GlasGrid® GG100 – GlasGrid GG is a high-tensile fiberglass grid with an especially high mesh stiffness due to the consistent impregnation of each glass filament with our patented polymer coating in order to reach an effective bonding between asphalt layers. A unique feature is the pressure sensitive adhesive backing of the grid, which ensures a quick and efficient installation and provides a good bond with the surface. GlasGrid GG can be installed directly on an old asphalt surface or on a leveling course. For the application on a concrete pavement, the installation of an leveling course is necessary.

Tensile strength: 100 x 100 kN/m

QUANTITY

1.200 m²

OWNER

Gemeindeverwaltung Memmelsdorf
Kreisbauhof
Pödeldorfer Straße 100
96117 Memmelsdorf

CONTRACTOR

H.A.R.T. Bau GmbH
Flachsdarre 9
96188 Stettfeld

INSTALLATION DATE

29.09.2011 – 01.10.2011

PROJECT DETAILS

Deeply damaged existing asphalt surface was milled to depth of 6 cm. After that the 2cm of leveling course was applied and the self-adhesive geogrid was installed on that. Tack coat spraying ensued and finally 4cm of asphalt overlayer.



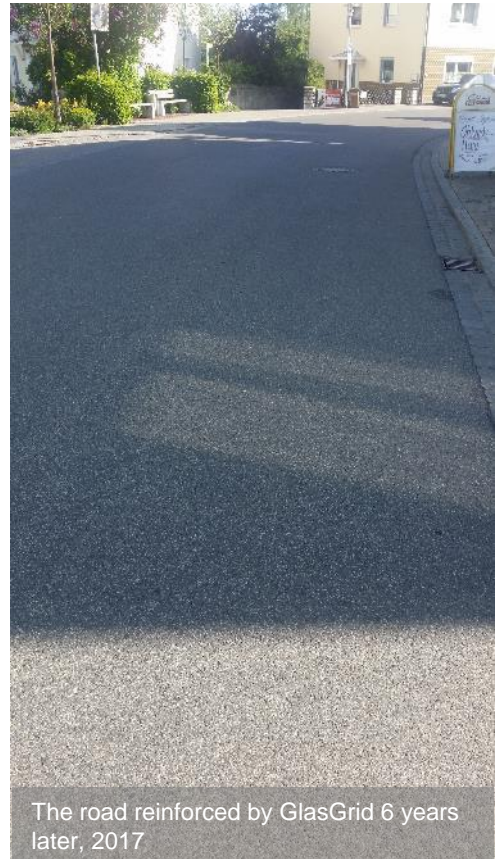
ROAD CONDITION CHECK

We went for visual check after 6 years of the road traffic. We weren't surprised by the result. We didn't discover the cracks on the road surface reinforcing by self-adhesive geogrid. On the other side we checked structural defects and cracks on the area without reinforcement grid.

CONCLUSION

The costs for the geogrid reinforcement of the asphalt increase the complete repair price up to 10 %.

Based on the GlasGrid functionality we can calculate with minimum 2 times longer pavement life in comparison with non-reinforced asphalt layer. GlasGrid typically provides a 50% reduction in future investment cost (e.g. maintenance, rehabilitation and use costs) over the life of an average road.



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GlasGrid is manufactured at an ISO 9001:2008 registered facility of Saint-Gobain ADFORS. GlasGrid is a registered trademark of SAINT-GOBAIN ADFORS. U.S. Patent 8,038,364; 8,349,431 and 8.882.385. Additional patents pending.
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