

MIRAGRID PGL-G

Easy and effective asphalt rehabilitation

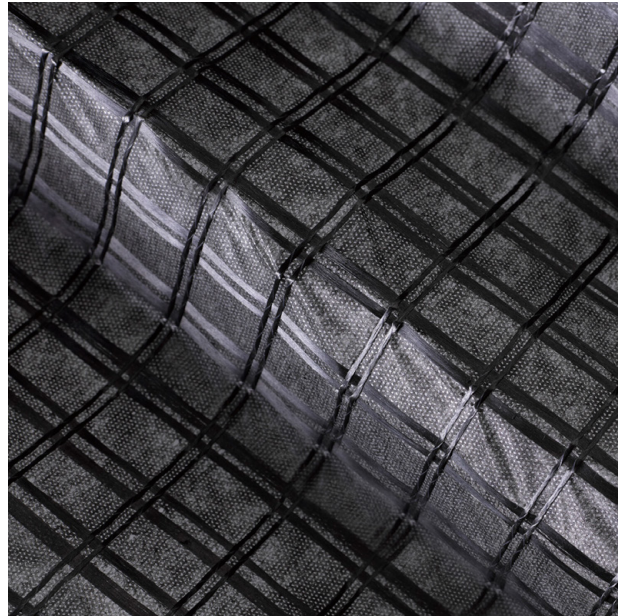


THE CHALLENGE

Our roads are one of our most infrastructure assets. Maintaining existing roads is just as important as constructing new roads.

A cost-effective and easy way to rehabilitate old cracked roads is the installation of a new surface course which is reinforced with special asphalt interlayer systems. The lower layers of old road structures can be left in place because the new layers are strengthened by a tensile reinforcement.

Geogrids in asphalt overlays are also expected to develop reinforcement mechanisms that contribute to the pavement structural capacity. The use of geosynthetics in asphalt overlays may also improve the mechanical behavior of paved roads by controlling permanent displacements and reducing strains in the pavement layers.



MIRAGRID PGL-G



THE PRODUCT

MIRAGRID PGL-G consists of a grid of high modulus glass fiber yarns and a lightweight nonwoven, serving as an installation aid. For easier handling the product is coated with a polymeric bitumen-compatible coating.

MIRAGRID PGL-G is available in different strengths and provides the optimal choice if reinforcement of new road surfaces is required. A light weight nonwoven secures easy handling on the project site and during installation.

THE OPTIMAL SOLUTION

MIRAGRID PGL-G provides the optimal solution for:

- Rehabilitating cracked roads when it makes sense to leave the lower layer in place.
- Upgrading the quality of roads where an increase in traffic is expected.
- Repairing the surface course at an early stage. This will prevent the repair of the whole road layer structure (including the expensive removal of the unbound layers) at a later stage.
- Installing reinforced asphalt on old concrete roads.
- Preventing cracks and joints in the old surface from propagating through the new asphalt.
- If only reinforcement function ("R" – according to EN 15381) is required.





SIMPLE AND EASY INSTALLATION

Installation can be done:

- Directly on the existing surface, if the status and evenness are sufficiently good and the level of the road surface can be increased by a few centimeters.
- On milled surfaces, if the old surface course must be removed because of its poor state and the final level needs to be kept. In that case, **MIRAGRID PGL-G** can be installed either below the new surface course or below the new binder course.
- The correct installation of **MIRAGRID PGL-G** will not complicate the construction process.
- Spraying a sufficient amount of bitumen (often in form of emulsion) and unrolling the grid are quickly done.
- Installation of smaller areas can be done by hand, whereas areas larger than app. 500 m² – 1,000 m² (5,382 ft² – 10,764 ft²) will require installation devices to unroll and fix the product.

PROVEN EXPERIENCE

In Germany a successful application of **MIRAGRID PGL-G** was done in summer 2017.

The old surface had shown cracks and the owner decided to execute repair works before further deterioration of the whole layer structure would occur.

70,000 m² (753,473 ft²) of **MIRAGRID PGL-G 50/50** were applied within a few days.

About us

Solmax is a world leader in sustainable construction solutions, for civil and environmental infrastructure. Its pioneering products separate, contain, filter, drain and reinforce essential applications in a more sustainable way – making the world a better place. The company was founded in 1981, and has grown through the acquisition of GSE, TenCate and Propex. It is now the largest geosynthetics company in the world, empowered by more than 2,000 talented people. Solmax is headquartered in the province of Quebec, Canada, with subsidiaries and operations across the globe.

Uncompromised quality

Our products are manufactured to strict international quality standards. All our products are tested and verified at our dedicated and comprehensive laboratories which maintain numerous accreditations. We offer our partners a wide scope of testing according to published standards to ensure products delivered to sites meet specified quality requirements.

Let's build infrastructure better

Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.

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