

GENAN ROAD+ PREMIXED

THE FLEXIBLE ELASTOMER MODIFIER FOR BITUMEN AND ASPHALT



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GENAN ROAD+ PREMIXED OFFERS MANY ADVANTAGES

- ✓ Proven technology
- ✓ Substitutes virgin materials, e.g. SBS
- ✓ Prevents rutting
- ✓ Prevents cracking
- ✓ Easy to work with
- ✓ Flexible
- ✓ Good for noise-reducing asphalt
- ✓ Recyclable
- ✓ Applicable at low and high temperatures
- ✓ No emission hazards
- ✓ No migration / leaching
- ✓ Does not stick to metal
- ✓ Outstanding visco-elastic properties
- ✓ High fatigue resistance
- ✓ High aging resistance
- ✓ Climate friendly
- ✓ Competitive price

ASPHALT TYPES FOR WHICH GENAN ROAD+ PREMIXED CAN BE USED

- Asphalt Concrete for surface layers
- Asphalt Concrete for binder layers
- Asphalt Concrete for base layers
- Stone Mastic Asphalt
- Mastic Asphalt
- Porous Asphalt
- Noise-reducing Stone Mastic Asphalt
- Noise-reducing Asphalt Concrete
- Noise-reducing Mastic Asphalt
- Very Thin Layers on sealing
- AC for Very Thin Layers
- Soft Asphalt
- Hot Rolled Asphalt
- Chip seal
- SAMI

GENAN

- is a global company, which is world leader in the recycling of end-of-life tyres
- is a high-technology manufacturer, working with sustainability, the recycling of valuable resources as well as the responsible use of rubber granulate
- focuses on high quality and the manufacture of products with a high degree of purity.

WHAT IS GENAN ROAD+ PREMIXED?

GENAN ROAD+ PREMIXED is an elastomeric bitumen and asphalt modifier and is used in accordance with a process patented by Evonik, one of the world's leading specialty chemicals companies.

Ingredients are 100 parts of high-quality rubber powder from Genan mixed with 4.5 parts of Vestenamer®, a semicrystalline polyoctenamer produced by Evonik.

Field experience and laboratory tests both show that as a rule of thumb, a standard bitumen modified with 10% GENAN ROAD+ PREMIXED performs on the same level as similar bitumen modified with 4% SBS (styrene-butadiene-styrene). In fact, many of the properties, e.g. the ability to resist rutting under high loads, are far better.

HIGH-QUALITY INGREDIENTS

Paramount for the performance of modified bitumen and asphalt is that the rubber powder used is uniform in both size and chemical composition. As the world's largest manufacturer of rubber powder from end-of-life tyres, Genan has the technology to live up to these requirements.

As Vestenamer® is produced by Evonik, the development of GENAN ROAD+ PREMIXED has been strongly supported by their technical know-how.

To ensure optimal dispersion and thus a perfectly homogeneous product, rubber powder and Vestenamer® are premixed with 100% accuracy in Genan's state-of-the-art production process. The result is the free-flowing and easily recognisable GENAN ROAD+ PREMIXED modifier.

WHERE TO USE GENAN ROAD+ PREMIXED

"GENAN ROAD+ PREMIXED can be used in all known standard types of bitumen and asphalt."

Several million square metres of road have already been paved with ROAD+ modified asphalt – and with GENAN ROAD+ PREMIXED, the mixing process on site has now become even easier than before.

GENAN ROAD+ PREMIXED is not only suitable for the top layer, but also for the binder layer as well as the base layer. Excellent results are documented in Stone Mastic Asphalt, Asphalt Concrete and Noise-Reducing Asphalt and SAMI (stress-absorbing membrane interlayer). GENAN ROAD+ PREMIXED is suitable for all climates, cold as well as tropical, resisting large day/night temperature fluctuations.



HOW TO USE GENAN ROAD+ PREMIXED

GENAN ROAD+ PREMIXED can be used in both wet and dry mixing processes, providing a high level of flexibility.

The combination of various bitumen qualities and GENAN ROAD+ PREMIXED content opens up for the development of new asphalt recipes. Depending on the exact properties required, you can design the optimum mix – even when recycled asphalt is used in the asphalt mix.

Compared to other polymer-modified asphalts, asphalt and bitumen with GENAN ROAD+ PREMIXED can be laid at lower temperatures. This increases the time window for paving, saves energy and reduces emissions.

Because of good workability, asphalt modified with GENAN ROAD+ PREMIXED is particularly well-suited for manual labour-intensive jobs, e.g. roundabouts, curves and driveways, as well as for thin-layer asphalt.

CARBON FOOTPRINT REDUCTION

As GENAN ROAD+ PREMIXED is made from sustainably recycled tyre rubber, the carbon footprint of the final asphalt / bitumen product will be far lower than the carbon footprint of asphalt and bitumen modified with SBS or other fossil-based additives.

At Genan, we are happy to help you make your own calculations by providing scientifically validated data from our Life Cycle Assessments.

