

## GRM by Rubbertec 40/15; GRM by Rubbertec 40/20

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| Mature products with long-term experience  | yes > 18 years   |
| Products achieve the specification of valid regulations:                               |  |
| 1. TL RmB St-B, By Edition 2010  | yes  |
| 2. E GmBA, 2012 edition  | yes  |
| The addition of viscosity-changing additives is possible                               | yes  |
| Delivery   | By truck, rail, or in containers. By truck as bulk material, in big bags (700 kg), as packaged bagged goods (meltable PE bags) on pallets. Packaging: 15 kg as standard, otherwise from 10 to 20 kg on customer request.   |
| Delivery quantities  | Any quantity of rubber-modified bitumen granules can be ordered. No minimum off-take.  |
| Storage at the asphalt mixing plant  | It can be stored almost indefinitely at the asphalt mixing plant, protected from moisture and direct sunlight  |
| Equipment of the binder tanks in the asphalt mixing plant with agitator units required | no   |
| Adaptation of bitumen pumps and metering required                                      | no   |
| Is GRM by Rubbertec ready for immediate use?   | Yes, the polymers from the input product are already broken down during production. This is the only way to ensure that all resources can be used optimally.<br>Therefore, a so-called „maturing time“ in the loading silo of the asphalt mixing plant is not required.  |
| Dosage   | GRM by Rubbertec should be added after the aggregates and before the dry mixing time.<br>A dosage of GRM by Rubbertec is carried out, e.g., via <ul style="list-style-type: none"> <li>a. Own dosing equipment</li> <li>b. Semi-automatic bag addition</li> <li>c. Asphalt granulate addition</li> <li>d. Manual dosing</li> </ul> |
| Use of RC materials  | The use of RC material is possible without any problems. However, to ensure a uniform modification, the dosage of GRM by Rubbertec is calculated on the total binder content (binder made from asphalt granulate and fresh binder (including GRM)).  |
| Mixing times   | The mixing times depend on the condition of the mixer. Usually, they do not need to be extended. However, the homogeneity of the mixed material should be checked based on sample mixes and the mixing times adjusted if necessary.  |
| Fibers   | High-quality asphalts can be produced by using GRM by Rubbertec. However, the binders provide very thick binder films due to their high viscosity. Therefore, the addition of binder carriers (e.g., fibrous materials) can usually be dispensed with.   |