

1. Application Sector

DAMTEC® MSS K is an isolation and protection mat for railway track constructions, proofed in accordance to DIN 45673-7 - mechanical vibrations – resilient element used in railway tracks.

The mat reduces structure borne sound and secondary airborne sound as well as emissions by vibrations. The field of application is in slab track systems (mass-spring-systems).

2. In General

With our data based on our tests and experience we want to advise you the best of our knowledge and belief. Our technical service is at your disposal.

3. Delivery and Storage

DAMTEC® MSS K is generally supplied in shrink wrapped rolls on pallets but it can also be supplied in the form of purpose made slabs to suit specific dimensional requirements.

The product requires dry storage; for longer periods the material should remain shrink wrapped with rolls stored vertically.

Accessories should be treated and stored according to the data sheets. Adhesive may not be stored below 10°C.

4. Substrata and Preparations

Suitable bedding layers are compacted gravel, cement and bitumen bound base courses. For our profiled types cement and bitumen are recommended. As stiffer the bedding as better it is for the acoustic measure.

Plastic liners can cause degradation of the MSS layer and should be checked for chemical compatibility.

In case of doubt only a PE or PP geotextile of minimum weight 300 g/m² should be used between the liner material and the **DAMTEC® MSS K** layer.

The elasticity of the MSS mat allows for the absorption small undulations in the bedding layer. Large undulations and protruding edges as well as loose sharp objects than can puncture or damage the MSS mat should, however be avoided as these can reduce the sound isolation properties of the matting. If necessary a concrete blinding layer should be applied. This blinding layer is recommended for our profiled types.

In areas where the MSS mat needs to be glued the bedding surface should be dry and dust free.

5. Installation of the mat

The mats must be laid at right angles to the track axis. The mats can be cut using a low speed sabre tooth timber saw or carpet knife and a steel straight edge. Before cutting ensure that the material is supported on an even hard surface.

Depending upon requirement and planning further layers of **DAMTEC® MSS K** will be installed.



Vertical sections can be fixed using temporary mechanical devices (e.g. clamps, etc.) or with adhesive (Körapur 666 / Köracur TH 650). Ensure that no metal fixings are left in place that can cause sound bridging. The bonding of the side areas is over entire surface.

The height depends on the trough height. The mats should be on the horizontal mats not on the subgrade. Rolls can be used and cut to the right size on site.

During installation no concrete for the slab track on the MSS should have contact to the surroundings. Only with decoupling sound bridges can be avoided.

Depending on the site conditions the side mats can be fixed against existing concrete sides before concreting the slab track or against the slab track after concreting.

6. Sealing of the joints

Joints have to be sealed using a special minimum 50mm wide duct tape. While sealing the elastic layer has to be dry.



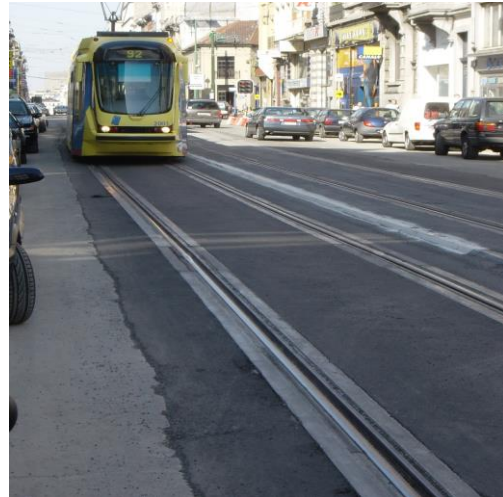
7. Installation of polyethylene membrane

Prior to the installation of the concrete it is necessary to cover the DAMTEC MSS K surface with a polyethylene protective membrane (thickness minimum 0.2mm) in order to protect it from cement water.



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8. Accessories

- adhesives for vertical area: Körapur 666 / Köracur TH 650
- adhesive tape: AT169

DISCLAIMER:

The information provided is intended only as a summary and general overview on matters of interest. The information is not intended to be comprehensive nor does it constitute expert advice. KRAIBURG RELASTEC shall not be liable for incidental and/or consequential damages directly or indirectly sustained, nor any loss caused by not complying with relevant industry/product standards and improper use of any Damtec® products. Due to varying construction methods, any other circumstances not stated above should be brought to the attention of KRAIBURG RELASTEC for review. For suitability to the prevailing site conditions, it is advised that certified testing should be conducted. It is recommended to seek further advice on your application with our technical staff prior to use.

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