



Expansion joints

mageba optional expansion joint features – optimising benefits



ROBO® GRIP Anti-skid Surfacing

reliable, hard-wearing, safe



mageba



Product characteristics & benefits

Principle

mageba ROBO®GRIP Anti-skid Surfacing is a cold-applied coating consisting of five layers of special low-viscosity resin and special additives.

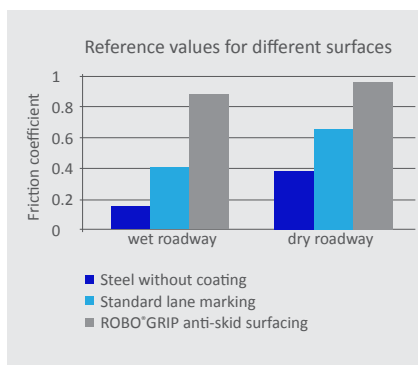
The system was developed for the landing decks of the aircraft carriers of the British Royal Navy, which require high friction and high durability under extreme conditions. The excellent properties of the materials have been successfully tested.

Through the use of ROBO®GRIP, a durable roughness can be achieved on the driving surface of an expansion joint. This enables skidding of vehicles to be prevented, even in wet conditions.

Frictional resistance

The frictional resistance of mageba ROBO®GRIP Anti-skid Surfacing is practically independent of whether the carriage-way is wet or dry. In fact, it is generally higher than that of the adjacent asphalt.

Tests have established that mageba ROBO®GRIP Anti-skid Surfacing offers frictional resistance of up to $\mu = 0.9$. By comparison, the frictional resistance of steel is only 0.4 (if dry) or 0.1 (if wet).



Properties

- Very high frictional resistance of up to $\mu = 0.9$
- Hard-wearing and thus long-lasting
- Extremely hard aggregate (9.2 on the Mohs scale), with high resistance to temperature (1 800 °C)
- High flexibility (durably elastic)
- Resistant to fouling by traffic
- Quick drying (24 hours)
- Different colours available

Quality

For five decades, mageba expansion joints have proven their worth in thousands of structures under the most demanding conditions. In addition to the product properties, the extensive experience of our well-qualified manufacturing and installation staff also contributes to the high quality and durability of the products.

mageba operates a process-oriented quality system that is certified in accordance with ISO 9001. Quality is also regularly checked by independent bodies such as the materials testing institute (MPA) of the University of Stuttgart. mageba factories are approved for welding in accordance with ISO 3834-2, and certified in accordance with the current steel construction standard EN 1090.

Related products

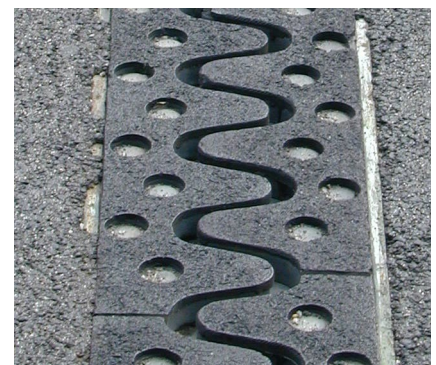
mageba offers the following additional options for use in connection with expansion joints:

- **ROBO®DUR:** Strengthening ribs of special mortar, which reinforce the asphalt adjacent to the joint. These reduce rutting, increasing driver comfort and the durability of the joint
- **ROBO®STATIFLEX:** Strengthening strip of quick-hardening polymer concrete along the side of an expansion joint, which reduces rutting, increasing driver comfort and joint durability
- **ROBO®MUTE:** Noise-protection system, consisting of mats placed beneath the joint to reduce noise emissions

Customer support

Our product specialists will be pleased to advise you in the selection of the optimal solution for your project, and to provide you with a quotation.

On our website, mageba-group.com, you will find further product information, including reference lists and tender documentation.



mageba RSFD cantilever finger joint with ROBO®GRIP

mageba expansion joint types



Single gap joints



Cantilever finger joints



Sliding finger joints



Modular expansion joints



engineering connections®