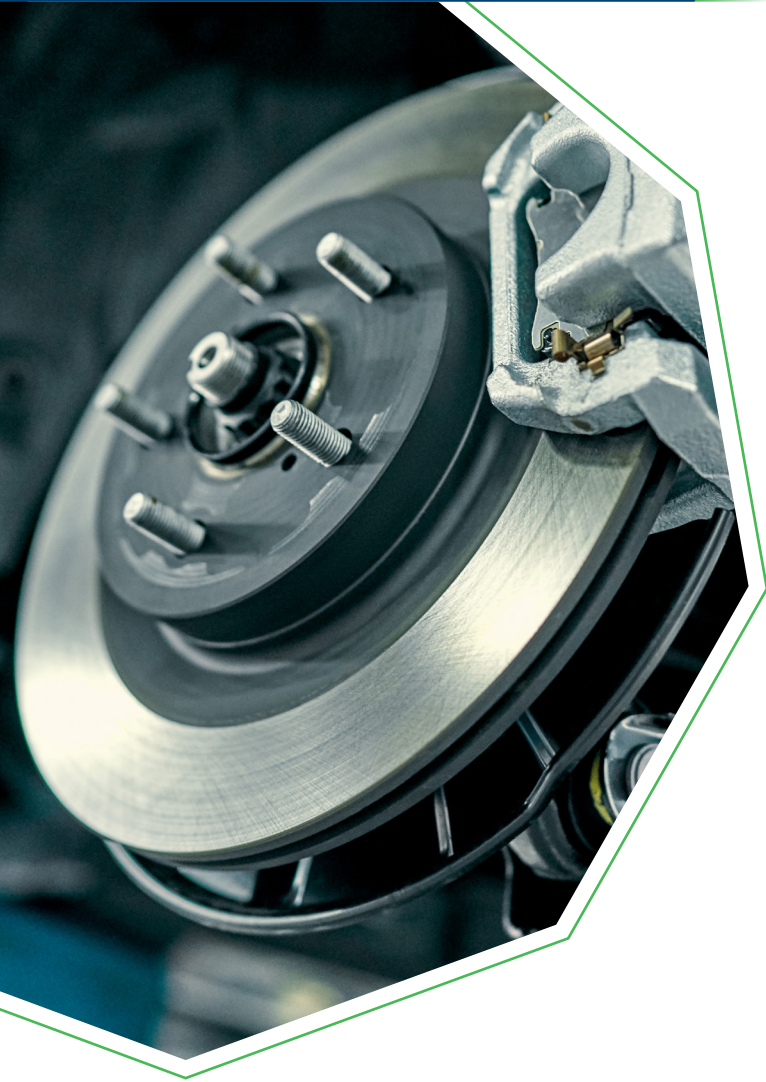


MIRATEC™ BD



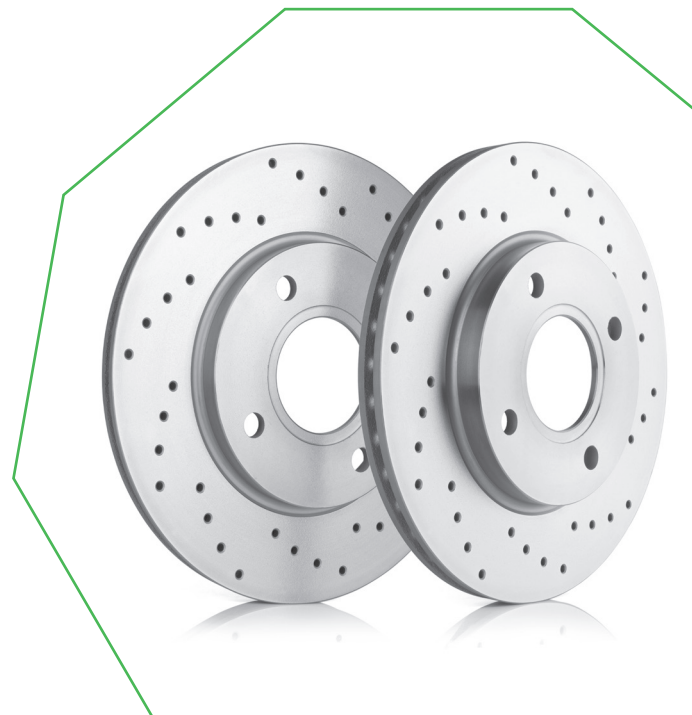
EXCELLENT MIRATEC™ BD SERIES COATINGS FOR THE SHORTEST HANDLING TIMES

Achieving the optimal and shortest handling times in the coating process is a central challenge for brake disc casters. Cycle times that are too long can impair the overall productivity of the foundry. Despite the short process, precise handling and accuracy of the coating application continue to have a high priority. In addition, every foundry faces the challenge of complying with emission limits.

In addition to the shortest cycle times, the innovative MIRATEC™ BD series offers a passive and active reduction in FA emissions in core production.

TECHNOLOGICAL ADVANTAGES

- Short handling times
- Avoidance of gas and pinhole errors, veining, and penetration
- Formaldehyde emissions are reduced
- Residue-free surface



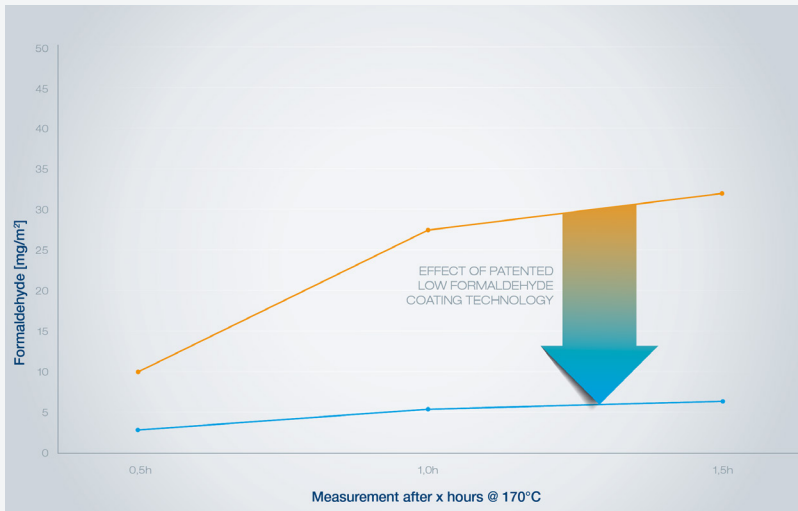


Figure 1: Comparison of formaldehyde emissions from two coatings dried at 170°C

The MIRATEC™ BD series is a dip coating specially developed for brake disc casting and its productivity, quality, and environmental friendliness requirements.

Productivity, quality, and efficiency with MIRATEC™ BD

The main features of MIRATEC™ BD series dip coatings are the shortest possible handling and drying times to meet the productivity needs of brake disc foundries. The coating application's formulation, precise handling, and high accuracy mean that casting defects such as gas and pinhole defects, veining, and penetration are avoided. The surface is residue-free and thus provides a better casting result and saves rework.

Thanks to the high material mileage of MIRATEC™ BD coatings, the foundry can produce more cores than before with the usual amount of coating.

Emission reduction and environmental friendliness

Patented emission scavengers in the water-based formulation of MIRATEC™ BD reduce the formaldehyde load during drying.

Another factor that favors environmental protection is the reduced heating of the drying furnace. Thanks to the quick-drying technology, the temperature in the furnace can be reduced, and the drying time can be shortened, thus saving energy.

Overall, MIRATEC™ BD offers a wide range of benefits for fast-cycle foundries.

YOUR SUSTAINABILITYPLUS

Profitability

- Productivity increase
 - Short handling times
 - Fast drying
 - Less rework due to the residue-free surface and avoidance of casting defects
- High efficiency
 - High yield due to its material efficiency

Environment & Social

- Water-based formulation
- Passive and active (patented) reduction of formaldehyde pollution in core production possible
- Energy reduction
- Shorter drying time and lower drying temperature