

## Segregation-free Premixes for Increased Productivity and Improved Performance

George Poszmik<sup>1</sup>, Kalathur S. Narasimhan<sup>1</sup>

<sup>1</sup> Research and Development, Hoeganaes Corporation, United States

### Abstract

Powder mixes used in the P/M industry contain ingredients of substantially different particle sizes and specific gravities that have a strong tendency to segregate during handling. Reducing or eliminating this segregation is essential for the part producer to achieve consistent precision and optimum performance. Treating the premixes with polymer binders helped to resolve this problem. Binder/lubricant systems have been developed that provide improved flow rates combined with increased green densities and green strengths. A review of these developments will be presented and their impact on overall productivity and performance will be outlined.