

PRESS RELEASE

MIKROVER - a new filling material from Dennert Poraver GmbH

Dennert Poraver GmbH engineers have developed a production process to produce a highly versatile filling material from recycled glass.

In the ball mills of the Poraver factory in Postbauer-Heng, waste glass pieces are ground down into glass powder particles smaller than 36 µm. The average size of the prepared glass powder particle is 10µm, equivalent to 0.01 mm or a tenth of the thickness of a human hair.

Glass powders are characterised by their widespread range of applications. They are used for instance in metallurgy as slag formers. In the ceramic industry, they are mainly used as sintering aids as they can reduce the firing temperature of the ceramic by up to 60 K. This results in a significant reduction of power supplies. In addition, the use of glass powder results in a denser ceramic structure together with a significant improvement in frost resistance.

Dennert Poraver GmbH subjected Mikrover to comprehensive tests at well-known institutes before the market introduction of Mikrover.

Comprehensive tests regarding the use of Mikrover in cement-based systems were implemented over a period of a year at the University of Halle, Institute of Earth Sciences, by Prof. Dr. Pöllmann. Various test results obtained during that period have since been presented at international research and professional congresses.

This means that cement-based systems, special plasters, mortars and construction-chemical products such as tile adhesives can be of interest as new application areas for the raw material Mikrover.

Mikrover has already confirmed its suitability and durability after applicable practical tests for use in acid-resistant mortars.

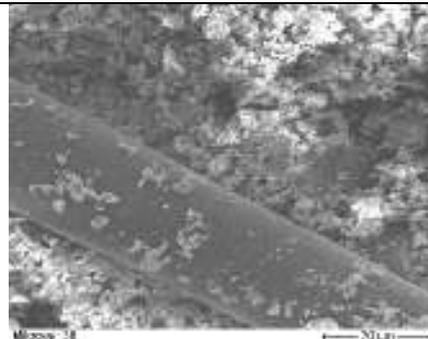
Preliminary tests at the Institute for Plastics Research and Development in Würzburg have shown that the addition of Mikrover significantly increases the modulus of elasticity in polypropylene. Higher values are possible in comparison to polypropylenes filled with chalk.

Investigations by the company ANZAPLAN show that Mikrover does not contain any alveolar fine dust portions (silicogenic quartz). The screening fraction investigated was smaller than 5 µm. The risk of silicosis can therefore be assumed to be extremely low.

Mikrover is available in 20 kg sacks, 1.5 m³ BigBags and as loose silo goods. Poraver recommends a required quantity of 5 to 25 percent by mass based on the binding agent.

With Mikrover, Dennert Poraver GmbH is expanding the application and refinement options available for the production of "next level products and building materials".

Photographs, graphics and captions:



The average size of the prepared glass powder particle is 10µm, equivalent to 0.01 mm or a tenth of the thickness of a human hair.

File name: comparison of size: human hair – Mikrover

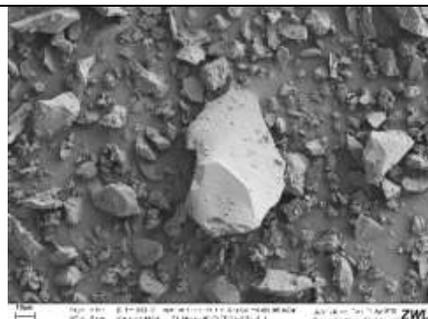


Fig 1 – Bulk preparation of the product Mikrover with 500-fold magnification.

File name: P Mikrover Abb1

Photos: Dennert Poraver GmbH
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