

# How to install synthetic resin coatings for floorings without the dust

## GEBR. DORFNER

Dorfner quartz sand has an enviable track record in the flooring industry going back many years. Hundreds of millions of square meters of industrial and commercial flooring have been installed using these mainstream products. Dorfner has now unveiled something totally new: the innovative DORSICOAT<sup>®</sup> product range for installation of synthetic resin coatings without dust.

DORSICOAT<sup>®</sup> coated quartz sand and sand blends are used as fillers in resin-bonded coatings in the flooring industry. They give commercial and industrial flooring a level of durability which makes them virtually indestructible.

According to the manufacturer, the elimination of dust during usage is the new feature which really sets DORSICOAT<sup>®</sup> fillers apart. It makes the

work a whole lot easier on site, and that has tangible benefits. The virtual elimination of dust improves occupational safety, and better working conditions enhance worker motivation and company loyalty.

The manufacturer claims that there are also other advantages of a totally different nature. The quality of the coating is better, because dust-induced surface defects are eliminated. Dorsicoat reduces installation time per square meter, so the installation team can easily increase their productivity.

Dorfner is introducing two product lines: DORSICOAT<sup>®</sup> PQQ, tailored specifically for EP and PU resin systems, and DORSICOAT<sup>®</sup> PQW which is ideal for acrylic resin. Dorsicoat fillers are formulated to meet the specific application requirements: mortar that has good plasticity and self-levelling coatings which are extremely easy to work with, and also to give the floor coatings effective anti-slip protection. They comply with urgent recommendations by occupational safety experts in the construction industry that "less dust on site" should be a top priority. Dorsicoat products are designed to maximize occupational safety, and they are highly compliant with international regulations and legal requirements.

Dust measurements conducted at IGF (a dust hazard research institute in Dortmund) on Dorsicoat products provided conclusive results. During measurements to assess the release of critical alveolar dust, all of the Dorsicoat products tested met the



Dorfner apparatus for demonstrating the dust formation characteristics of quartz sand products: (left) standard products and (right) low-dust Dorsicoat brand filler.

criteria in the most stringent category. Measurement of fine dust showed that Dorsicoat is well below the defined limit. Compared to standard quartz sand products which are rated as low-dust, alveolar dust levels have been reduced by an additional 30%. Compared to standard quartz dry shake was tested and classified as low dust, the difference is even more dramatic. Dorsicoat was more than 80% better, reported Dorfner. The same technology can be applied to other quartz sand products which are used in construction chemicals. Coatings can even be applied to quartz powder, and the technique is already being used on a large scale. In the words of the manufacturer, "Dorsicoat ushers in a new era in flooring installation".



Continuous drop dust pipe apparatus at IGF used to measure dust