

EcoPrep – New concepts for dry preparation of tile production

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ABSTRACT

The concerns about the process costs, product quality and preventing of damage to the environment have always been important factors for the choice of industrial processes. In this presentation we will present economical processes for the production of high-quality dry-pressed tiles.

The focus is the reduction of production costs without losing, but even increasing the product quality. We will explain the advantages of the Eirich EcoPrep technology compared to the most common wet process for the preparation of press granules.

With the use of new Eirich technologies, we can reduce the production costs without losing quality and still reducing damage to the environment. The main points for reducing costs are

- Energy:

Energy, both thermal and electric, has great influence on the costs for the preparation of ceramic coverings. In this presentation, we will concentrate on the dry preparation of press granules.

- Additives:

For wet preparation, liquefiers –for increasing the density have to be added to the slip.

- Water:

We will show new processes in comparison with the wet process where we have a reduction in the amount of used water.

- Sintered reject products (chamottes):

As per the improvement of preparation control, even when working with low-quality raw material, it is possible to achieve a cost reduction through smaller amounts of rejects.

With these technology you have the possibility to produce a high-quality ceramic body with lower energy consumption.

Granules from evenly prepared raw materials will stabilize subsequent production steps and increase the quality.