Improved tile adhesives - long open time and short setting time by special starch ethers from Agrana

Tiles are showing a trend towards large formats, which will continue in the future. The laying of extra-large tiles puts a high demand on tile adhesives. Tile adhesives must achieve higher strength and be easy to process. To facilitate the laying work, long open times and short hydraulic curing are required.

In order to obtain these properties in modern high-performance tile adhesives, special additives in various amounts are added. An important additive are highly modified starch ethers. These starch ethers are mixed in proportions of 0.04 - 0.1 % and show very positive effects on rheological fresh mortar properties as well as open time and setting time. The functionality of highly modified starch ethers in dry mortar products is well known and appreciated in the industry. Starch ethers contribute in synergistic interaction with cellulose ethers to a considerable extent to improve the fresh mortar properties in diverse mortar systems. The special starch ethers for tile adhesives, patent granted to Agrana, show the combined properties of long open time and short setting time. Other starch ethers do not achieve this positive combination of properties.

In addition, they cause a significant increase in the yield stress, which gives beneficial processing options for stable tile adhesives. The pronounced thixotropic behavior illustrates the low shear resistance during application and spreading and is perceived by the specialists as being very creamy.

Starch ethers add important properties in high performance tile adhesives and are readily adaptable through a variety of modification options.