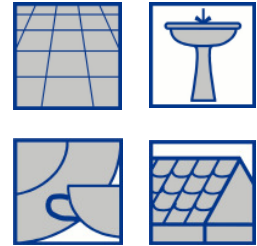


## Suspension aids



## PEPTAPON, STELLMITTEL

### Application

Suspension aids are used to **prevent sedimentation of glazes**.

Zschimmer & Schwarz offer suspension aids based on electrolytes and on swelling agents respectively.

Those based on **electrolytes**, which are available in liquid form, are especially designed for use with the glaze **after preparation**.

Suspension aids in powder form, based on **swelling agents**, are used in **preparation via the glaze mill**, as there a homogeneous distribution is guaranteed. They are particularly useful in the stabilization of deflocculated, low viscosity systems.

### Mode of action

The effect of **electrolyte based suspension aids** is based on their ability to **influence the charge on the surface** of the glaze particles. Their addition tends to make the glaze **thixotropic**, which counteracts sedimentation. These suspension aids do not increase the drying time of the glaze, but support de-watering through agglomeration of the fine particles. Since there is no difference in the de-watering speed of coarse and fine particles a **constant de-watering** is achieved. These products act very quickly, because they are liquids and hence are already dissociated.

Suspension aids based on **swelling agents** stabilize the glaze slip by the **formation of a high molecular framework** in the suspension. The sedimentation is prevented through gel building.