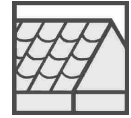


GIESSFIX 162

Dispersing agent/deflocculant



Chemical basis:

Sodium disilicate

Characteristics:

Appearance: white granulate
Solubility: water-soluble
Bulk density: approx. 700 g/l
pH (1%): approx. 12
Residue on ignition: approx. 80 %

Safety data:

Labelling according to EC directives: Xi - Irritant

Shelf-life / Packaging:

12 months minimum when stored properly and dry
bags of 25 kg

Application:

GIESSFIX 162 is suitable for the deflocculation of most silicate ceramic raw materials. Bodies deflocculated with this dispersing agent generally exhibit a broad deflocculation interval. This means that natural raw material variations can generally be compensated.

The deflocculating effect of GIESSFIX 162 is a result of the cation exchange of the additive with the ceramic body, and the influence on the electrical double layer of the clay mineral particles that is associated with this.

GIESSFIX 162 can be combined with all known deflocculating agents.

The combination with DOLAPIX PC 67 or with a DOLAFLUX type has proved to be very successful. In these instances, GIESSFIX 162 effects the basic deflocculation, while the huminate components in the DOLAFLUX types or the polycarboxylate components in the DOLAPIX PC 67 optimise the processing properties.

The amount that must be added varies between 0.1 and 0.5% of the solids content of the slip.

Since, on account of their differing mineralogical composition the raw materials react very differently to various deflocculants and the amounts added, we recommend comparative trials.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

Issued: 14. March 2008