

DOLAPIX PC 187

Dispersing agent / Deflocculant



Chemical basis:

Polycarboxylic acid, sodium salt

Characteristics:

Appearance: lightyellow liquid
Active matter: approx. 41%
Solubility: water-miscible
Density (20 °C): approx. 1.30g/cm³
pH (original): approx. 7.0
Residue on ignition: approx. 18%

Shelf-life / Packaging:

6 months under proper conditions
Drums of 30 and 150, containers of 1100 kg

Application:

DOLAPIX PC 187 is suitable for the deflocculation of ceramic bodies of differing composition. It makes it possible to prepare slips with a high solids content.

DOLAPIX PC 187 has a broad deflocculation interval and counteracts thixotropy. It does not foam.

Since the product is liquid and is thus completely dissociated, the deflocculating effect commences immediately after addition to the slip. Hence, it is possible at any time to adjust the viscosity of the slip by rapid, homogeneous incorporation into the slip, e.g. directly on the casting line, without difficulty.

The deflocculating effect of DOLAPIX PC 187 is a result, on the one hand, of 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. On the other hand, the polymere chains attach themselves to the clay mineral particles, and thus effect a steric repulsion.

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, 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.