

SERADEF 1002

Dispersing Agent / Deflocculant

Chemical basis:

Sodium Acrylic Polymer

Characteristics:

Appearance: Brownish, Clear liquid
Solubility: Water Miscible
Density: 1300 g/l (20 °C)
Viscosity: 150 mPas (Brookfield DV II, 20 °C)
pH: 8,0±1,0

Safety data:

Labeling according to EU Directives: not relevant

Shelf-life / Packaging:

12 months under proper storage conditions
Drums of 250 kg, IBC tanks of 1200 kg

Application:

SERADEF 1002 is a liquid deflocculant for ceramic slurries. Even if added in small quantities, SERADEF 1002 leads to a decrease in viscosity and hence facilitates many of the ceramic production processes: such as body preparation, engobe and glaze preparation, glaze application, ceramic ware casting, etc. Owing to its chemical composition, SERADEF 1002 is effective on most of the plastic slurry formulas. Its components burn off completely during the firing process giving no harm to the ceramic ware finish result.

Just like any other electrolyte, an excess of SERADEF 1002 may cause the slurry to increase its viscosity, rather than further decrease it, in accordance with the particles polarity theory. However, an addition of fresh slurry can bring the particles polarity back and solve the problem as the reaction is fully reversible.

According to common practice, we recommend to add SERADEF 1002 at the following percentages:

Body material:	0.10 – 0.30
Engobes	0.20 – 0.50
Glazes:	0.15 – 0.30

The shear stress created by the grinding media of the slurry mills does not affect the effectiveness of SERADEF 1002, so that it can be added either before or after grinding, depending on the individual requirements during production.

The above results have been obtained from trials in our laboratory. In the light of changing conditions, they can serve as guide and are therefore provided without obligation. We request to observe the possible rights of third parties.