



Amisolo B

Chemical Description

Aqueous solution of carboxymethylated starch

Main use

Liquid binder and thickener for glaze, engobe, grits and printing medium

Typical values

Appearance at 20 °C: Homogeneous ropy paste

pH: 9-10.5

Viscosity(Brookfield RVT @ 20 °C, 20 rpm):4500 -6500 mPas

Dry residue: 18 - 21 %

Product properties

AMISOLO B is an original product by LAMBERTI, widely used in ceramics for more than thirty years all over the world. Its peculiar features make it suitable in any ceramic application as a binder or as a thickener agent.

Being a liquid product, AMISOLO B can be dispersed easily in slurries, slips and glazes, always or just when it is requested by the situation. It does not produce foam and it has a good resistance against bacterial attack.

Applications

Glaze and engobe:

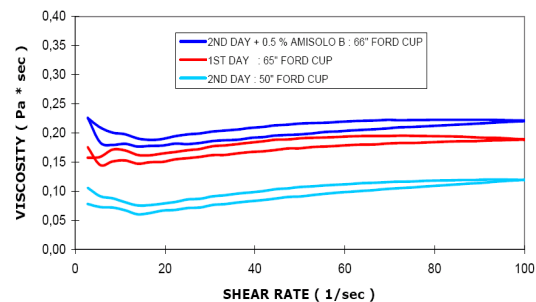
As regards glazes and engobes, it can be used either as sole binder or as Carboxymethylcellulose (CMC) extender, when a loss of the starting glaze features, like viscosity or water retention, are observed.

In glazing of ceramic tiles, the dropping of the viscosity is very commonly observed, mostly in hot climate. Temperature, stirring and air entrapping are all inducing CMC degradation by bacterial or chemical-physical attack. Viscosity and drying time drop, so sedimentation and glazing defects are observed.

For instance (see the graph below) if you record 65 seconds Ford cup (diam. 4 mm) viscosity for a glaze just unloaded from the mill, then 50 seconds the day after and 40 seconds the third day (glaze not more suitable

for glazing), you can easily recover the glaze by addition of 0.3 - 1.5 % of AMISOLO B.

The addition is made directly along the production line in the tank of the bell: after few minutes of stirring AMISOLO B develops its effect and the properties lost with the degradation of the CMC are recovered



AMISOLO B is particularly indicated for lean glazes, where the plasticizing and viscosizing action is extremely important; i.e. disk and airless applications. The drying of the glaze becomes longer and the surface smoother.

Grits and pellets:

Properly diluted (1 part with 1-3 parts of water) and given by disk or spray, AMISOLO B is used as glue for the dry application of grits and pelletized glazes. It is possible to make a "sandwich" application, when necessary, so that the applied dry material is placed between two glue layers.

Storage and handling

AMISOLO B is stable to prolonged storage under condition where extreme temperatures do not occur. The product should be stored between 5°C and 35°C and the shelf life is at least twelve months if this condition is observed.

Packaging

110 kg plastic drums.
1000 kg tanks

Material safety

It is advisable to remember that inappropriate use of chemicals and lack of basic industrial hygiene practices can be harmful to health and the environment.

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Safety information is available on our safety data sheet, available on request in accordance with the EEC directive.

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