



Resicel 9160

Chemical Description

Product based on natural polymers and electrolytes.

Main use

Rheology modifier and binder for ceramic glazes.

Typical values

Appearance: liquid from colourless to yellowish

pH @25°C: 7- 9

Density @ 25: 1100 ± 25g/l

Product properties

Resicel 9160 has been developed to meet white-ware glazing requirements:

- short grinding time;
- short unloading from the mill and sieving time;
- no settling to avoid glazes sedimentation in tanks and reservoirs;
- long shelf life of glaze-slips;
- high flow capacity of spray guns;
- rheological behaviour suitable for the application on vertical or sloping surfaces, avoiding dropping and straining problems;
- short drying time, compatible with high speed "robot" glazing systems;
- good texture and even surface;
- homogeneous coating of surfaces;
- good binding action avoiding crawling, excessive release of dust, cracks and other defects

Resicel 9160 gives the glaze slip a proper pseudo-plastic rheological behaviour suitable for spray glazing of ceramics.

Applications

Resicel 9160 is usually added into the glaze in quantity of 1 - 3 % (on solids).

The addition of Resicel 9160 can be done in different ways according to glaze feature, plant organisation and habits:

-Total or partial addition directly into the ball mill. To reduce grinding time, it is also possible to add Resicel 9160 only in the last hour of grinding.

-Addition of Resicel 9160 directly into the glaze which has to be made carefully to get a complete and homogeneous dispersion of the binder without formation of clots.

Take into consideration that glaze slips might show thinning or thickening behaviour in the first hours after addition of Resicel 9160.

Then we recommend a resting time to reach stable rheological parameters of the glaze before its use. The proper resting time depends on local working conditions and has to be checked on site.

Resicel 9160 solves the bacterial problem thanks to its particular composition so that glazes are stable for a longer period.

Storage and handling

Resicel 9160 is stable to prolonged storage under condition where extreme moisture does not occur. The shelf life is at least twelve months if this condition is observed.

Packaging

1000 kg tank.

Material safety

"Detailed health and safety information can be found in our safety data sheet, available according to ECC Directive"

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