



Tixolam MT 1010

Chemical Description

Product based on polysaccharide and silicate.

Main Use

Rheology modifier and binder for ceramic glazes.

Typical Values

Appearance: Homogeneous powder

pH (2% solution): 7.5 - 10

Viscosity (2% solution, Brookfield RVT @ 20 °C, 20 rpm): <1500 cP

Product Properties

TIXOLAM MT 1010 is a low viscosity binder for sanitaryware and tiles glazes, generally used to regulate the action of high viscosity special binders like TIXOLAM CD 31 and similar products keeping at the same time all the features of the TIXOLAM products developed to meet modern sanitary-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;
- strong binding action avoiding crawling, excessive release of dust, cracks and other defects

Applications

TIXOLAM MT 1010 can be used alone or together with other binders/rheology modifiers (i.e. Carbolcel and other Tixolam) according to the required rheological parameters.

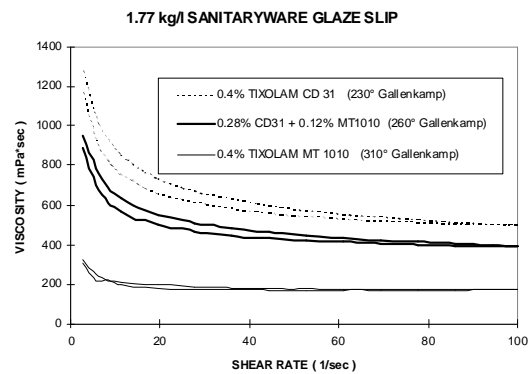
The use of two products together allows fitting the glaze properties to the different seasonal environmental conditions, only by a slight variation of the ratio of the two different products.

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Tixolam MT 1010 is also used at 0.25 - 0.4% as a sole product, to obtain low viscosity slips for the glazing of the closets waterway or other special parts.

TIXOLAM MT 1010 is then also suitable for dipping or filling glazing of table-ware and other items.

The graph reported below shows the action of TIXOLAM MT 1010, TIXOLAM CD 31, and of a blend, 70% + 30% of the two products.



The addition of TIXOLAM MT 1010 can be done in different ways according to glaze feature, plant organisation and habits:

- Total or partial addition in powder form directly into the ball mill. To reduce grinding time, it is also possible to add TIXOLAM only in the last hour of grinding.
- Addition of TIXOLAM MT 1010 into the glaze slip unloaded from the mill is very often done with a predispersed paste composed by 4 - 8 parts of Tixolam MT 1010 and 96 - 92 parts of water, obtained through a high speed stirrer (standard mixing time: 5-10 minutes). This paste is then kept at rest for 12-24 hours before addition.
The addition to the glaze slip requires a "high speed" stirring, and a time between 20 minutes and 1 hour.
- Addition of TIXOLAM MT 1010 in powder form directly into the glaze which has to be made carefully to get a complete and homogeneous dispersion of the binder without formation of clots.

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Ceramic Tiles

In the glazing of single-fired “monoporosa” wall tiles TIXOLAM MT 1010 confers to the glaze the right rheological behaviour for application by “bell”, high stability, strong adherence to the tile body, flat appearance and quick gelling of the slip after application, which is necessary to avoid defects on the glazed surface. Due to the deflocculant action of TIXOLAM MT 1010, the addition of another dispersant/deflocculant is often not necessary.

TIXOLAM MT 1010, due to its chemical composition, can be prone to bacterial attacks that can cause sudden changes of rheological characteristics of the glaze; then we recommend the use of antibacterial agents (i.e Carbosan from Lamberti) during glaze preparation to improve its consistency.

Storage and Handling

TIXOLAM MT 1010 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

25 kg five-ply multiwall paper bag having two plies coated with polyethylene.

Material Safety

Consult the Safety Data Sheet

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