06 ADDITIVES FOR APPLICATION OF GLAZES AND ENGOBES IN DIGITAL MACHINES WITH WATER BASED SYSTEM

The water base digital glazing, after a long period of setting up and of test, has recently been proposed on the ceramic market meeting a great interest immediately.
This revolutionary applicative technology is becoming a reality even more present in this sector thanks to the irrefutable advantages that it can offer.

The reduced exercise pressures, rarely it is overcome the half bar, guarantee the total absence of nebulisations or of sprays, it allows an immediate and drastic pollution abatement inside the working environment and, extremely important fact, it allows to reduce almost at zero the losses due to the material that is removed from the suctions, that we know they are obligatory in the equipment that exploits the nebulisation to glaze.
The savings depend on the type of systems in use in the specific companies but surely, they are quantifiable on average in a 30% of the total consumptions.

A significative evolutionary step that has allowed this new applicative system to become immediately proposable is the important work of development done by the chemical additives.
An important achieved goal was to make the system suitable for the standard productive cycles allowing the companies to do not modify the purchases and consolidated grinding standards.
The use of glazes and glazes-engobes of standard use has made simpler and more immediate the approach to this innovative technology, but it was mainly thanks to the development of this new series of formulated products that the industrialization process has been made simple, rapid and effective.
In this case, the additive is not only coadjuvant part but it becomes integrant part of the process because the planning/applicative logics of these new machines require very precise and steady specifications.
The glazes have to acquire rheologic and electro-chemical requirements whose steadiness is fundamental part to guarantee a constant and high productive performance.

Mistral is among the few companies on worldwide level that is able to offer a complete range of concentrated additives

Tecno S additives represent the best available on the market since they born from the long process matured in closed proximity with the companies that manufacture digital machines.

Before proceeding to the industrial phase, it is always suggestable to do laboratory tests on the glazes that you want to "digitalized" to check what, among the different suggestions, is the more performing and suitable solution.

TECNO S ADDITIVES

The **TECNO S** additives are part of a group of additives developed for the ceramic glazes preparation to be used with digital machines.
They are formulated products extremely concentrated that allow, once mixed to the glaze, to obtain a perfect and homogeneous wetting of the support and a adequately levelled surface.

Their particular structure guarantees to the use density an excellent anti-sedimentation action with minimal rheologic variations that allow the glaze to keep unchanged the original sliding and fluidity features.

The correct quantity of **TECNO S** additives to be used depends on the type of ceramic base that you want to apply and on the operating conditions that you want to adopt.
It is suggested an adjustable use according to the required working features.
For densities of more than 1400 gr/lt, the average additivation is of 3% on the dry product.
For densities of less than 1400 gr/lt, the suggested additivation is of 5%.

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