



# Sospensil SM

## Chemical description

Aqueous solution based on inorganic chloride.

## Main use

Suspending agent.

## Typical values

Appearance at 20 °C:	Clear liquid
pH:	6 - 8
Iron content:	max. 5 ppm

## Product properties

SOSPENSIL SM is a suspending agent suitable to avoid hard settling and sedimentation in ceramic slips, mainly glaze slips.

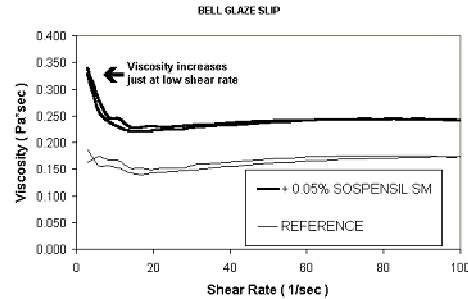
In the following example, let see the action of the addition of 0.05% on the rheology of a bell glaze for monoporosa tiles:

Fris blend	95
Kaolin	5
Exametaphosphate	0.12
CMC Carboel MM 3	0.3
Water	47

	Reference	+0.05% SOSPENSIL SM
Ford Cup 24	55"	59"
Density	1.711 kg/l	1.711 kg/l
Drying time	118'	80'

It is interesting to consider the rheological behavior, showed in the following graph.

The flat rheology of the reference is modified with an increasing of viscosity just at lower shear rate, in other words where glaze slip is almost in quiet. The sedimentation of solids particles is so reduced.



## Applications

SOSPENSIL SM can be added directly into the mill, in the storage tanks or just before application along the glazing line.

The useful percentage is 0.01% - 0.05% on the solid content of the slip. Higher concentration gives flocculation with thickening and marked reduction of the drying time.

## Storage and handling

SOSPENSIL SM is stable in closed container and in conditions at which extreme temperatures are avoided.

In order to maintain the performance of the product, store at room temperature and protect from frost.

The shelf life is at least twelve months if this condition is observed.

## Packaging

120 Kg plastic drums, 1000 kg plastic tanks.

## Material safety

Consult Safety Dsta Sheet

[ceramics.lamberti.com](http://ceramics.lamberti.com)

This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty, e.g., regarding their fitness for a specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of our technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in our relevant Safety Data Sheet.