



# OPTAPIX CF 1000 H

Binder for glazes and engobes

## Chemical basis

Purified sodium carboxymethylcellulose

## Characteristics

Appearance	yellowish granulate
Moisture content	8 % maximum
Solubility	readily water-soluble
Bulk density	approx. 600 g/l
pH (1 %)	approx. 7
CMC content dry	approx. 99 %
Viscosity(1 %, 25 °C)	approx. 1200 mPas

## Shelf-life / Packaging

12 months when stored under proper and dry conditions

bags of 25 kg

## Application

OPTAPIX CF types differ by their degrees of polymerization and hence the viscosities of the aqueous solutions.

OPTAPIX CF types are used in glazes and engobes as viscosity adjusting, non-foaming binding agents. They improve the abrasion resistance, give glazes or engobes a good fit and prevent running.

Sodium CMC being a polyelectrolyte, the low viscosity, i.e. short-chain types like OPTAPIX CF 12 H/C 25 H, have a deflocculating effect besides their binding property.

As far as the sodium CMC types with a medium degree of polymerization, such as OPTAPIX CF 50 H, are concerned their electrolytic effect is to a large extent compensated by their increased intrinsic viscosity, they, therefore, have a rather neutral effect on the viscosity of the glaze slip, at the usual addition quantities.

High polymer types, such as OPTAPIX CF 200 H/C 1000 H, have a thickening effect on the glaze slip. In general, an increasing degree of polymerization will lead to better binding properties and an improved water retention, this means a longer drying time.

