



GERLI

**chimicolor**

Viscosil  
Deflon  
Moulding

SANITARY WARE

[www.chimicolorgerli.it](http://www.chimicolorgerli.it)





# PRESENTATION

CHIMICOLOR INDUSTRIA CHIMICA has been operating from 1981 in the specialty chemicals for Ceramic tiles, Technical ceramics, Refractories and Glass decoration materials achieving a wide experience in the study and in the production of chemicals auxiliaries.

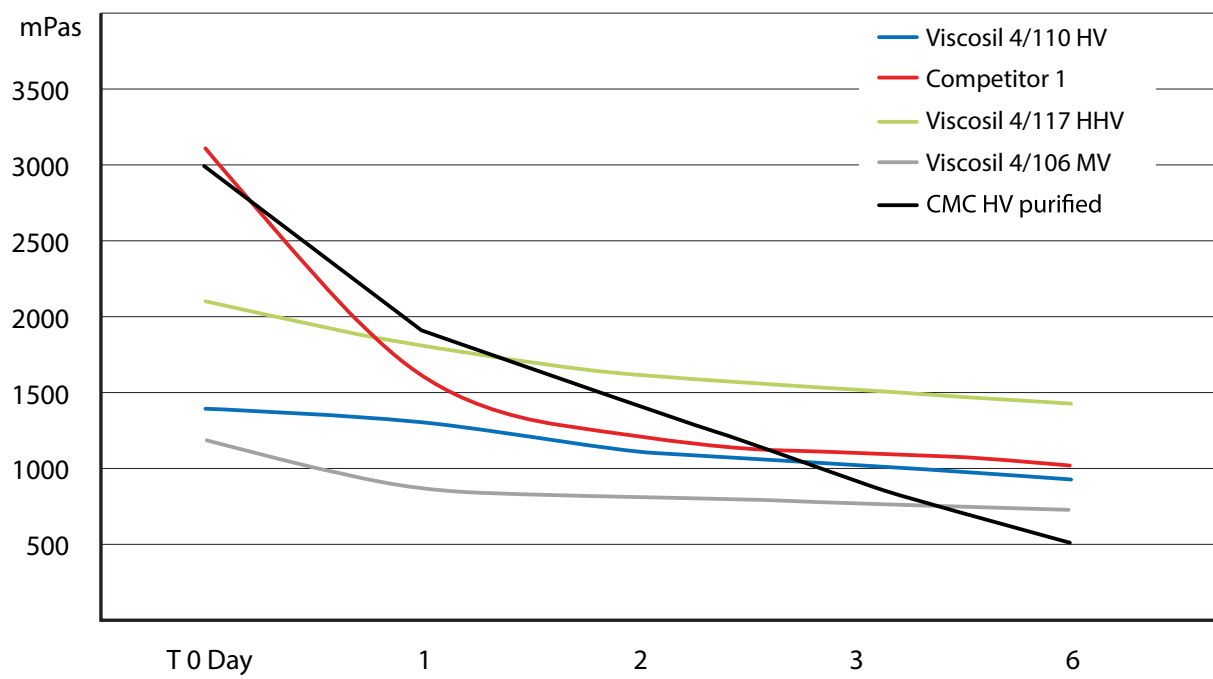
The constant research of advanced solutions of our R&D Service enables our Company to work with our customers in order to develop new formulations and achieve optimal performance in production.

As direct producers of raw materials and Chemical Auxiliaries, we can offer an extensive range of first-class quality specialties that are developed and optimised according to the requirements of our customers.

Our technical specialists will answer your detailed questions in order to satisfy your demands.



## Characteristic curve



# Viscosil

## SANITARY WARE GLAZES

For many years it has been evaluated the necessity to create alternative products of CMC which are widely used in the Bathroom Sanitary-ware industry.

Unfortunately CMC had the defect of not being always the same in their main characteristics (viscosity and solubility); besides they are easily attacked by micro-organisms that make them degrade quickly.

Since 1981 CHIMICOLOR has begun a qualified study of alternative products of CMC which are more specific in order to avoid the difficulties that emerge in their usage.

The follow-up of this research has created a line of products called "VISCOSIL".

VISCOSIL is a special combination studied to develop thickeners and stabilizers of viscosity for sanitary ware made of vitreous china and fire clay. It is known that during the cycle of glazing it is important that the viscosity of the glaze remains constant for a period of time until the coat of uniformed glazing is applied during this process.

With the introduction of robots during the cycle of automatic glazing, the constancy of viscosity is an essential condition during the working procedure. Our VISCOSIL correspond to this characteristic completely. They are offered in many different viscosities and are suitable to satisfy all types of requests.

Furthermore, they regulate the right way for drying time and the best wetting capacity as to avoid cracks and fractures of the coating.

The particularity of thixotropy that is given to the coating avoids droppers or accumulation of the glaze in dead ends or under the syphons where cracks usually appear.

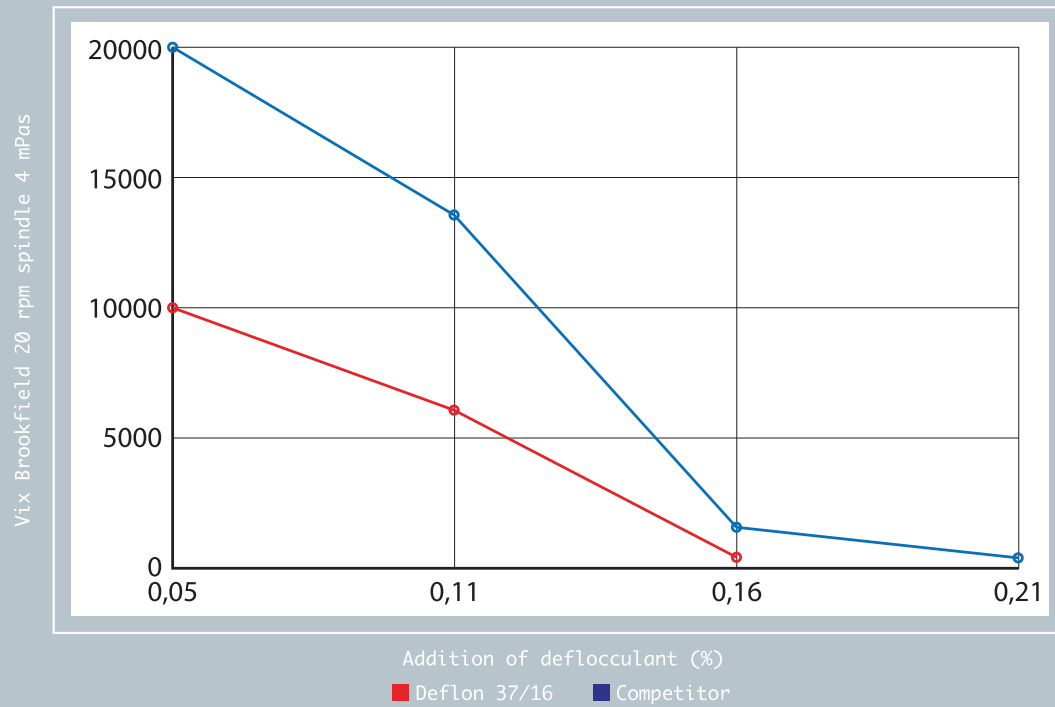
Strict controls of the raw material and of every step during the production consent a warranty for supplies that are absolutely constant and homogeneous.

Shows the curves of viscosity of a glaze for bathroom sanitary-ware where different types of VISCOSIL have been added component to competitor 1 and to purified CMC.

They differ chiefly from one another in the nominal viscosity.

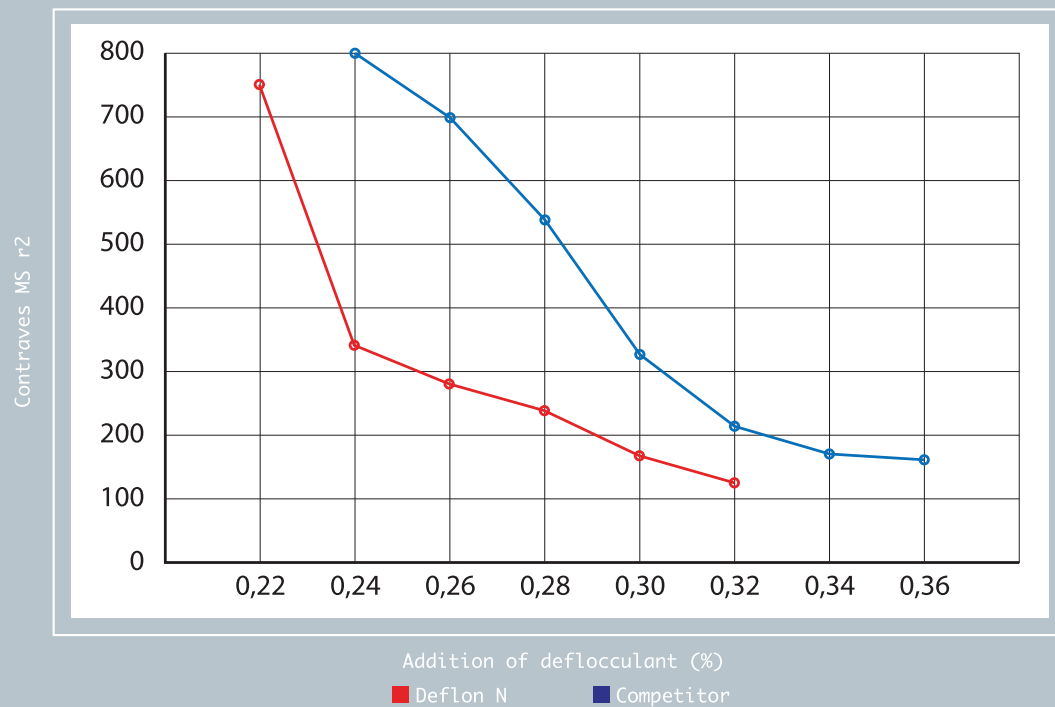
## Comparison Deflon 37/16 Vs Competitor

Slurry of Sanitary ware body 1835 gr/l



## Comparison Deflon N Vs Competitor

Slurry of Sanitary ware body - 1800 gr/l



# Deflon

## DEFLOCCULANTS AND DISPERSANTS

DEFLON are exceptional organic dispersants strongly recommended as deflocculants for the preparation of bodies and glazes.

They are offered in various types as ceramic compositions differ from one another depending on the characteristics of the employed raw-materials: synthetic deflocculants, silicate-based inorganic alkaline compounds

The choice of the most suitable deflocculant is best determined directly by the user making preliminary laboratory tests in consideration of:

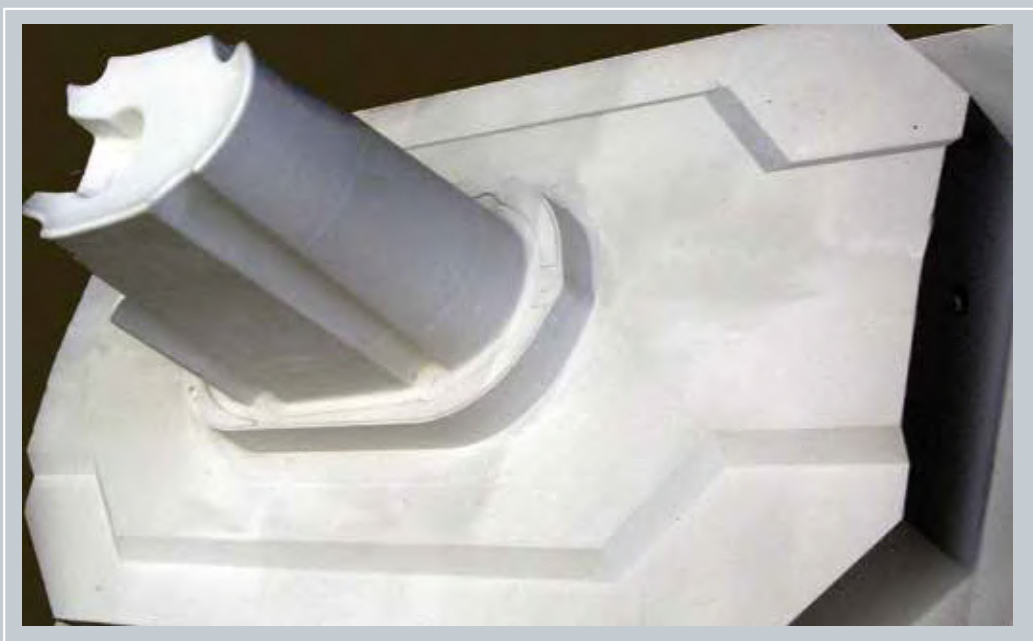
the minimum obtainable viscosity,  
the thixotropy of the system,  
the time of formation of the thickness during casting.

In figure "2" you can see a viscosity curve on sanitary-ware body obtained by the use of DEFLON N, which is a poly-acrylic deflocculant. Figure "1" shows a viscosity curve obtained using DEFLON 37/16, which is an alkaline deflocculant.

These figures prove the very high effectiveness and the valuable results in viscosity of both products, even by using them in very small quantities.

CHIMICOLOR can provide excellent technical service and is at customers' disposal to select the most suitable products for their various needs.

PRODUCTS	APPEARANCE	CHEMICAL BASE
DEFLON N	liquid	Sodium polyacrilate
DEFLON C	liquid	Sodium polyacrilate
DEFLON T	liquid	Polyacrilic Acid - Sodium Salt
DEFLON A	liquid	Polyacrilic Acid - Ammonium Salt
DEFLON 37/16	powder	Silicate-based inorganic alkaline compound
DEFLON C20	powder	Silicate-based inorganic alkaline compound





# Moulding

## MOULDING

Release Agents for the production of moulds

Since many years CHIMICOLOR has developed two exceptional Release Agents for model and mould production, which are fully capable of satisfying our customers' requirements all over the world:

### EMULFORM and FORMEX

EMULFORM is a special ready-to-use release agent, suitable for every type of plaster moulds and models for ceramics when there is contact between plaster / plaster or plaster / resin.

FORMEX is a viscous paste, readily dissolvable both in warm and in cold water. FORMEX is especially designed as detaching agent for every type of plaster moulds and models for ceramics. After the dissolution process, it is advisable to add our detaching oil SYNTOIL HD into the solution in order to improve the release of the formed pieces.

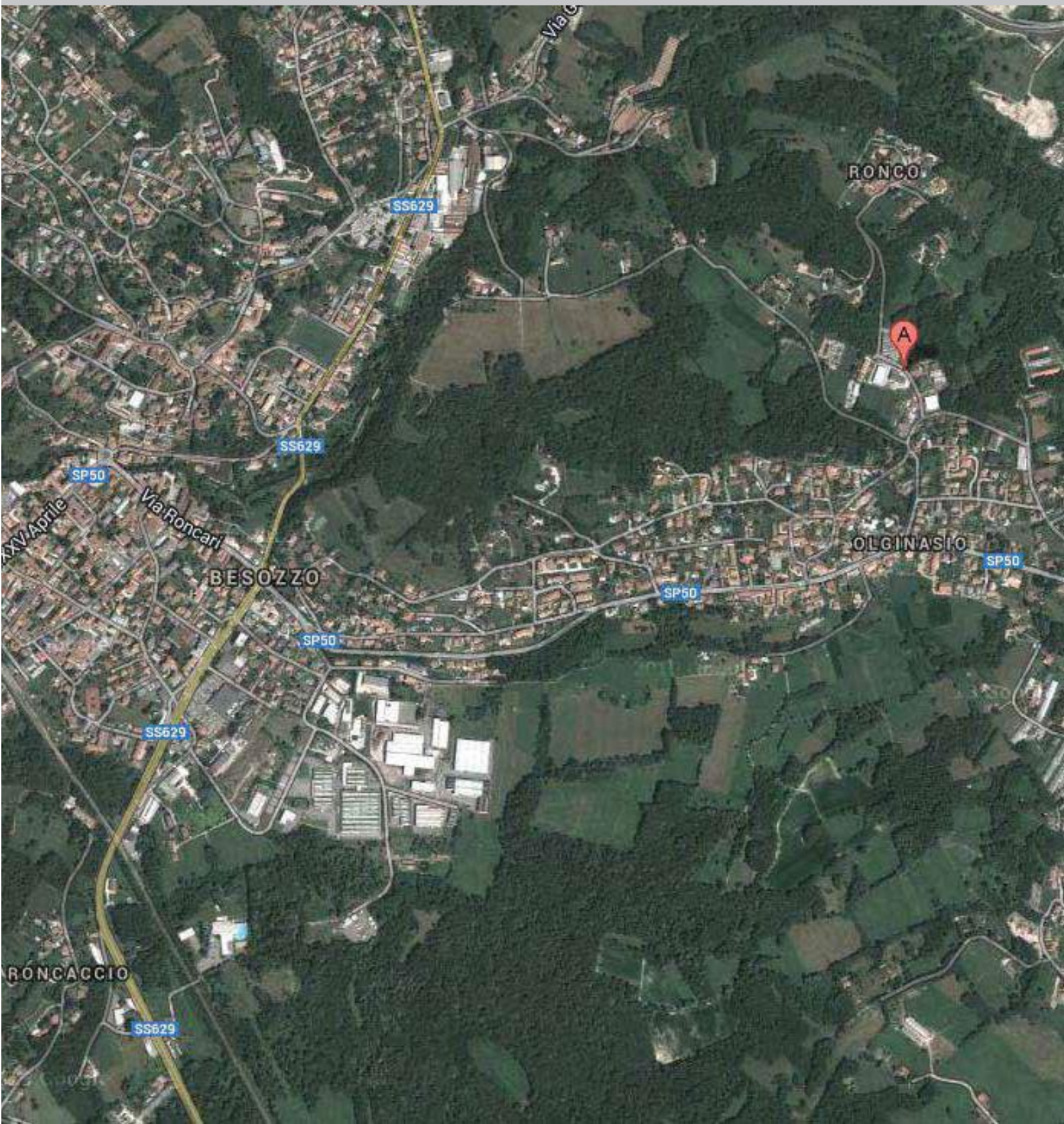
Advantages from the use of our Release Agents:

excellent separation of the plaster negative cast from the master mould form, the pieces result smooth and free from any residues, high yield using very small quantities of product.

# SANITARY WARE

ADDITIVES	CHEMICAL BASE	PRINCIPAL USES
<b>● DEFLOCCULANTS</b>		
— <b>DEFLON N</b>	Acrylic Acid - Sodium Salt	Heavy duty deflocculant for bodies and glazes
— <b>DEFLON A</b>	Acrylic Acid - Ammonium Salt	Deflocculant for technical and sanitary ware bodies
— <b>DEFLON T</b>	Acrylic Acid - Modified Sodium Salt	Deflocculant for bodies and glazes
— <b>DEFLON C 20</b>	Acrylic Acid - Sodium Salt	Deflocculant for moulding
<b>● THICKENING AGENTS</b>		
— <b>AMYLOSE F</b>	Etherified Polysaccharides	Viscous liquid binder for glazes
— <b>VISCOSIL 4/106</b>	Starch Ethers - compound	Binder - powder form - very low viscosity
— <b>VISCOSIL 4/110</b>	Starch Ethers - compound	Liquid form for bodies
— <b>VISCOSIL 4/117</b>	Synthetic Polymers	Binder for Technical & tableware bodies
— <b>VISCOGEL CMC</b>	Purified CMC	Binder - water retentive
<b>● ANTISETTING AGENTS</b>		
— <b>VISCOGEL 4/118</b>	Synthetic Compound	High efficiency Antisetting Agent
— <b>VISOSIL BWS</b>	Gel Blowing System	Plasticizer & water retentive
— <b>SEDOL CM</b>	Electrolyte Solution	Suspending agent for glazes
<b>● DEFOAMERS</b>		
— <b>DEFOAMER NS</b>	Compound of Alcoxylate	All purpose defoamer & air release
<b>● MOULDING</b>		
— <b>EMULFORM</b>	Synthetic Oil & Fatty Acid Emulsion	Detaching emulsion for moulds
— <b>FORMEX</b>	Soft Soap	Detaching emulsion for mould
<b>● BIOCIDES</b>		
— <b>PARACIDE BT NEW</b>	Compound of Isotiazolinones	All purpose biocide for glazes
<b>● ADHESIVE FOR DECALS</b>		
— <b>DELAC T</b>	Solvents Emulsion	Emulsion of decals application on raw glazes
<b>● ORGANIC COLOURS</b>		
— <b>DIACROM</b>	Atoxic Grade Colours	Glazes temporary colouration







STABILIMENTO - BESOZZO (VA)



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