



# SEROIL

## Chemical Description

Blends of solvent and polymers

## Main Use

Medium for third firing decorations.

## Product Properties

In over-glaze screen printing to dry the transferred pattern is a critical step. It depends on the kind of decoration, on equipment and on environmental condition.

For instance, it is impossible to superimpose a pattern if the previous one is not dried and everywhere is hard to dry without failure a very thick pattern.

Lamberti experienced with success two mediums, with different features, that used as single products or mixed together can solve a broad range of problems: **SEROIL CS 71** and **SEROIL CS 98**

## Applications

**SEROIL CS 71** is a screen printing medium based on a water soluble synthetic copolymer, designed for over-glaze decoration, that is a strong binder with enhanced wetting properties. It gives to the pattern a very good adhesion to the glaze surface. It is possible to mix the product with water up to the ratio 1:1 if high bond strength is not required. In such a case the drying time became longer.

Into the kiln the burn out is complete with no residue.

**SEROIL CS 98** is a water soluble screen printing medium based on a blend of synthetic polymers in water soluble solvents. The drying rate is high and the medium is suitable for superimposed multiple colour decoration and for thick and very thick pattern. Into the kiln the burn out is complete with no residue.

The printing pastes must be stored in closed vessels.

The following table shows the effect of the blend of the two mediums:

	100 % SEROIL CS 71	50 % SEROIL CS 71 + 50 % SEROIL CS 98	100 % SEROIL CS 98
Drying time	35"	25"	20"
Adhesion and Bond Strength	Very good	Very good	Good
Brook. Viscosity 20 rpm	19000 cps	17750 mPa·s	12000 mPa·s

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## Storage and Handling

**SEROIL CS 71** is stable to prolonged storage under conditions where extreme temperature does not occur. Shelf life is at least twelve months if these conditions are observed.

**SEROIL CS 98** because of its flammable nature must not be stored near naked flames or at elevated temperatures or near radiators or steam lines. The product should be stored between 0°C and +30°C. Shelf life is at least twelve months.

## Packaging

25 kg plastic drums or 200 kg standard steel drums

## Material Safety

**SEROIL CS 71** results not hazardous for handling and storage, so no warnings or labels are required.

**SEROIL CS 98** is flammable and exhibit a closed cup flash point of 26°C.

Do not use near naked flames and ensure adequate ventilation, especially when working in enclosed spaces.

Detailed health and safety information can be found in our safety data sheets, available according to ECC Directive