Technical Data Sheet



Solutions for Decoration

L 409/3 - Covercoat - tack-free

Application Due to its good combustibility and depolymerization, L 409/3 can be used for

decorations on porcelain and ceramics.

Particular emphasis is to be given to the tack-free surface of this covercoat after

drying

L 409/3 is thus used as a "tack-free" covercoat for decors that have not been printed with pastes which have high medium contents. L 409/3 can also be used for the

heat-release process as a result of ist good blocking stability.

Printing Properties High printing speeds can be achieved with L 409/3, without any cobwebbing or

blistering, due to the well-balanced solvent composition.

Film characteristics After the solvents have evaporated, L 409/3 produces an easy-to-handle, flexible

film. After drying, the surface is silk-matt and virtually tack-free.

If the printing inks have not been printed on top of one another several times and too thickly, interlaying wax paper can be dispensed with if the ceramic decals are stored in a vertical position. As the surface tackiness depends to a large extent on the plasticizer content of the printing inks, it is absolutely necessary to test the blocking stability at the highest temperatures expected in the environment where the ceramic decals are to be processed. The test for establishing the blocking

stability is described in detail in Part B under B 1/5.

The recommended minimum dry film thickness should be some 23 $\mu\text{m}.$

Application errors If the recommended processing temperature of 20-25 °C is not observed, i.e. the

temperature is lower, cobwebbing may occur when printing, the film thickness may be insufficient and there may be pinholes in the dry film due to poor levelling

properties.

Tack- (block) free covercoats are less flexible than regular products. As all decals loose flexibility during storage, this should be accounted for as an additional parameter, in order to supply decals with the desired flexibility for use. Raised application temperature as well as plasticizing additives or a combination of the two

helps to apply rigid decals properly.

Storage L 409/3 should be stored in the drums in which it was originally supplied by FERRO

in a dry place at room temperature (15-25°C). Always seal opened drums carefully as the composition of the product changes when solvents evaporate from open

drums.

When this storage recommendation is observed, the minimum shelf life in

unopened original drums is 2 years.

Environment Waste material treatment, environmental health and safety protection has to follow

the local regulations and legislation.



Solutions for Decoration

Field of application	glass, porcelain, ceramics
Processing	with automatic and semi-automatic screen printing equipment
Appearance	cloudy liquid
Composition	polyacrylates; plasticizer; solvents
Viscosity at 23°C [mPa*s]	2300 at 50 1/s; 2100 at 200 1/s
Degree of thixotropy	low
Consistency	thixotropic
Density at 20°C [g/cm³]	0,95
Non-Volatile parts (nvp) [%]	44
Flash point according ISO 3680 [°C]	+47
Recommended screen material	PET: 21-140 to 24-120 or corresponding steel mesh
Blocking stability	tack-free
Minimum dry film thickness [μm]	23
Drying figures TZ according to Mettler	TZ 10: 45 ; TZ 100: 860
Recommended working temp. [°C]	20 - 25
Recommended rel. humidity [%]	55 - 60
Thinner	
Cleaner	80 452

Limitation of Warranty and Liability

Ferro believes that the information contained in this document is accurate at the time of its publication. Ferro makes no warranty with respect to the information contained in this document. The information in this document is not a product specification, either in whole or in part. Your use of the information contained in this document and your purchase and use of this Ferro product are at your sole discretion. Downstream users are responsible for determination of the suitability of this product and for testing in specific applications. Nothing in this document shall be construed as a license for use that infringes upon any property rights of any third party. Please refer to the Safety Data Sheet (SDS) for safe use, handling and disposal information. All sales by Ferro to you are subject to Ferro's Terms and Conditions of Sale, as amended from time to time and available at www.ferro.com. In the event this document conflicts with Ferro's Terms and Conditions of Sale shall control.