

Technical Data Sheet

Solutions for Decoration

80 683 - Application Medium

Application	<p>80 683 is a water-soluble medium which is ideally suited for almost all direct applications.</p> <p>The main areas of application are:</p> <p>Banding and lining machines.</p> <p>Hand-painting medium</p>
Printing properties	<p>80 683 is, among other things, a flowing, water-soluble banding and lining medium with very good application properties.</p> <p>For banding and lining machines this medium allows the ink to flow well from the lining tools due to its special solvent composition, thus ensuring that the lines are drawn without interruption. This positive feature also makes the product a popular medium for hand painting. Due to the fact that it is water-soluble, all tools can be cleaned with water.</p>
Miscibility	--
Application errors	<p>If applied incorrectly, i.e. if less than the recommended minimum quantity of application medium is used, the flow of ink may be interrupted during lining because the line paste viscosity is too high. As the medium is water-soluble, vessels which may corrode should not be used for either the medium itself or for any application pastes made with it.</p>
Storage	<p>80 683 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.</p> <p>When this storage recommendation is observed, the minimum shelf life in unopened original drums is 12 month.</p>
Environment	<p>Waste material treatment, environmental health and safety protection has to follow the local regulations and legislation.</p>

Field of application	glass, porcelain, ceramics, enamel
Processing	with stripe and line machines; hand painting
Appearance	slightly opaque liquid
Composition	cellulose derivatives; solvents
Viscosity at 23°C [mPa*s]	930 at 50 1/s ; 690 at 200 1/s
Degree of thixotropy	none
Consistency	flowing
Density at 20 °C [g/cm³]	0,92
Non-Volatile parts (nvp) [%]	8
Flash point according to ISO 3680 [°C]	20
Recommended screen material	depending on color and design
Recommended pasting ratio	- -
Drying	by means of solvent evaporation
Drying figures TZ according to Mettler	TZ 10: ; TZ 100: not measured
Recommended working temp. [°C]	20 - 25
Recommended rel. humidity [%]	55 - 60
Recommended Covercoats	- -
Thinner	water
Cleaner	water

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, Ferro's Terms and Conditions of Sale shall control.