

Technical Data Sheet

Solutions for Decoration

NR. 231 - Medium for Spraying

Application	NR. 231 is a water-soluble spraying medium that is ideally suited for spray applications on glass, porcelain, ceramics and enamel.
Printing properties	Mixing of the color powder with our spraying medium Nr. 231. Depending on the color used we recommend a mixing ratio of 100 parts by weight of color with 100 up to 150 parts by weight of spraying medium. The paste has to be homogenized with a ball mill. Running time: approx. 14 to 16 hours. For any further thinning Water or Ethanol is suitable.
Miscibility	Mixing of the color powder with our spraying medium Nr. 231. Depending on the color used we recommend a mixing ratio of 100 parts by weight of color with 100 up to 150 parts by weight of spraying medium. The paste has to be homogenized with a ball mill. Running time: approx. 14 to 16 hours. For any further thinning Water or Ethanol is suitable.
Application errors	As the medium is water-soluble, vessels which may corrode are not to be used for either the medium itself or for spray liquids made with it.
Storage	NR. 231 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 12 month.
Environment	Waste material treatment, environmental health and safety protection has to follow the local regulations and legislation.

Field of application	glass, porcelain, ceramics, enamel
Processing	with automatic spraying machines and hand spray guns
Appearance	cloudy liquid
Composition	PEG, water
Viscosity at 23°C [mPa*s]	60 at 50 1/s ; 60 at 200 1/s
Degree of thixotropy	none
Consistency	flowing
Density at 20 °C [g/cm³]	1,06
Non-Volatile parts (nvp) [%]	1,7
Flash point according to ISO 3680 [°C]	100
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: cannot be measured
Recommended working temp. [°C]	20 - 25
Recommended rel. humidity [%]	55 - 60
Recommended Covercoats	- -
Thinner	water, ethanol
Cleaner	water

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