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Bronze Paste FF

and other Bronze Pastes

Processing Instructions

Area of Application	Bronze Pastes for the manufacture of metallic colors for screen printing.
Composition	Bronze Pastes are made of metallic powders which are incorporated in a small amount of solvent.
Mixing Ratio with Bronze Varnishes	<p>1 part by weight of the respective Gold Paste FF (Rich Gold FF, Pale Gold FF, Rich Pale Gold FF or Copper FF) is mixed with 4 parts by weight Bronze Varnish (e.g. Thermo-Jet® 093).</p> <p>1 part by weight Silver FF is mixed with 5 – 6 parts by weight Bronze Varnish.</p> <p>Depending on the application and the substrate, the Bronze Varnish or transparent lacquer to be used as the mixing base can be selected from the table "Screen Printing Inks – Select the ink for your substrate".</p> <p>To achieve a homogenous pigment distribution, the total amount of Bronze Paste required to attain the desired metallic color is mixed with a small amount of Bronze Varnish. After this combination is thoroughly mixed, the remaining Bronze Varnish can be added.</p> <p>Depending on the ink type, the shelf life of such mixtures can be limited. Further information is available on request.</p> <p>For water-based inks, special bronze pastes have to be used.</p> <p>Too long or intense stirring must be avoided because the metal particles can be destroyed. Then, especially in the case of tinted silver shades, a distinct color variation can occur. For this reason, propeller mixing blades are far better than high shear or high speed dispersers.</p>

Thinning	The mixtures are thinned with the thinners for the corresponding mixing varnishes or ink systems, as described in the respective Technical Information Sheet (e.g. Thermo-Jet®).
Drying	The drying conditions depend on the varnish and on the substrate.
Overprinting	The varnish used for mixing the bronze paste, determines the choice of overprinting and spraying lacquers. Mixtures containing a large amount of bronze paste show a limited overprintability. When performing a tape test, the ink films can be separated for lack of cohesion.
Further Information	The instructions herein apply analogously to the use of other bronze pastes. Using large amounts of Bronze Paste to produce highly brilliant metallic colors often provides limited cohesion.
Ready Mixed Metallic Shades	In some ink lines, ready mixed gold and copper shades are available (see current price list), which show a far better resistance to weathering compared to the Gold and Copper FF pastes.
Cleaning	Screens and utensils are cleaned with the cleaner recommended for the mixing varnish, please see the respective Technical Information.
Shelf Life	Do not open containers which have been cooled or heated through storage or transport until contents have attained room/ambient temperature. This refers to all components necessary for producing the metallic shades, such as varnish, Bronze Paste or thinner. The shelf life stated on the label assures the product's quality and refers to unopened original cans stored in a dry place at temperatures between 5 °C (40 °F) and 25 °C (75 °F).

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