

CerMark™ LMC6001P Bronze for Glass & Ceramic



Recommended use:

LMC6001P is recommended for creating bronze marks on glass and ceramic substrates. LMC6001P dries quickly as a matte dark brown paint-like coating. This coat is quite resistant to accidental dry rubbing but can easily be smudged or wiped if touched with a wet object.

Recommended substrates:

LMC6001P material can mark a range of glass and ceramic substrates. It has previously been used to mark many different types of glass in industrial applications such as vehicle windshields, laboratory instruments, plate glass, and glass ampoules. It can also be used for decorative work on bottles, wine glasses and awards. Additionally, it has found uses on ceramic products such as porcelain sanitary ware, electronic substrates, and for decorating wall and floor tiles.



Glass
Ceramic

Lasers that work:

LMC6001P works well with both CO₂ and solid state lasers.

Dilution:

LMC6001P will need to be diluted differently depending on how you plan to apply it.

- **Air brush application:** Ratio of 2:1 (2 parts in volume of LMC6001P, 1 part in volume of denatured alcohol) is recommended (please refer to your air brush manual for information about material thickness for your model type).
- **Foam brush (hand) application:** Ratio of 3:1 (3 parts in volume of LMC6001P, 1 part in volume of denatured alcohol) is recommended. For more detailed information on dilution, please visit www.thermark.com.

Application methods:

Please make sure that the surface to be marked is free and clear of oils, cleaning agent films, dust, and lacquer coating.

- **Air brush application:** When applying LMC6001P from an air brush, the resulting coating should be about 1-1.5 mils thick (~25-35 μ m). Spray uniformly at a 10" distance from the surface and move the nozzle from one side to the other covering the whole substrate area. Start spraying away from the area to be marked and move towards the opposite side and past the target area. Over-spraying before and after the target area allows constant velocity of movement and will help provide an even coating on the substrate. Make sure the substrate is not visible underneath. If necessary spray a few more times.
- **Foam brush (hand) application:** When hand applying LMC6001P the resulting coating of LMC6001P should be 1-1.5 mils thick. Use about a 1" wide foam brush and soak less than 1/4" of the brush with LMC6001P. There is no need to soak more than that, otherwise the ink may splash and result in an uneven coat thickness. Apply with smooth, even strokes.

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Note: Air brush application is preferred over foam brush application. It can be challenging to achieve the smooth, even coating of laser marking material necessary for optimal marks when using a foam brush. We only recommend foam brush application if you do not have an air brush or are coating a small surface area.

For more detailed information on application, please visit www.thermark.com.

Drying time & methods:

If left to air dry, LMC6001P is normally fully dry within three to four minutes. If air drying takes too long, however, a hair drier or forced air heater may be used to speed up the process. LMC6001P can be fully dried with an average household hair dryer in less than 15 seconds.

Laser settings:

Power and speed are the two most important variables to control when using TherMark laser marking materials with any laser, but there are other relevant variables depending on which laser you are using, such as the focal length of the focusing lens, resolution (DPI), rep rate (PPI, Hz), or hatch spacing (for vectoring mode operation). Please visit www.thermark.com to read more about laser settings and to download an LMC6001P laser settings chart.

Product Appearance:

LMC6001P is a dark brown (coffee black) liquid with the viscosity of orange juice. It will need to be thinned and stirred prior to use, but will remain dark brown after dilution.

Once applied to the substrate and dry, LMC6001P will be a dark brown paint-like coating.

Shipping options:

LMC6001P liquid is a non-hazardous, water-based product and can be shipped via ground or air with no additional charges.

Product storage:

All LMC products should be stored between 40°F (5°C) and 95°F (35°C) in a dark, dry place.

Disposal:

LMC6001P is a water-based material and is environmentally safe and non-hazardous. After laser bonding, any excess, un-bonded material can be washed off the substrate and down the drain into your normal water/sewer waste area. Unused containers of liquid ink/paste can be safely disposed of in your regular trash and solid waste area.

Availability:

LMC6001P comes in 2 sizes: for price and availability, please contact TherMark.

LMC6001P.50	50 gm liquid ink, up to 1,050 sq/in
LMC6001P.250	250 gm liquid ink, up to 5,250 sq/in

* Product coverage in above table assumes proper application (dilution/coating thickness).