

→ LMC-6044 Black Marking Material

Technical information

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→ Product Description

The LMC-6044 Premium Black Marking Material is a new and improved version of the old LMC-6044 Black Marking Material. It offers improved handling characteristics, will not dust off of the substrates it is applied to, and has smoother, blacker marks.

The LMC-6044 Premium product is a laser marking material for ceramic, glass and porcelain substrates. The LMC-6044 Premium is water based, which allows for moderate drying time and easy clean up. The products can be used on a variety of materials such as ceramic, tile, dinnerware, mugs, sanitary ware, glasses and porcelains including automotive glass, spandrel, container glass and the like.

→ Physical Properties

Appearance	Coloured liquid, with water like consistency	Density	11.0 - 15.0 pounds / gallon
Flash Point	Not applicable	Drying Rate	Moderate

→ Product Strength

Allows CO₂, YAG, and Fiber lasers to mark substrates such as ceramics, glass and porcelain with colour.
Produces marks resistant to abrasion and heat; fast drying; water based, organic free for environmentally preferred clean-up.

→ Application Parameters

Methods	Spray gun, airbrush, or aerosol
Application	Clean the surface to be marked so that it is free of any lubricants or oils. The LMC series must be applied with an even coat to ensure a consistent mark and colour
Coverage	500 grams of an LMC series product will cover approximately 2500 – 3000 square inches.
Film Thickness	Approximately 3.0 wet mils
Thinning	Thin with water as needed
Reduction	Use as supplied. Thin if necessary
Cleaning	Wash with water or a wet towel

→ Curing and Drying

Methods	Air dry, radiant heat, hair dryer or convection oven
Drying	Typically air dries in about 5-10 minutes, can be sped up by force drying

→ Laser Marking - Starting Points for Settings

CO ₂	18-30% power (35 watt laser), 10-25% speed, 500 DPI / 500 PPI
YAG	10-20 watts, 10-20 inches / sec speed

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→ **Application Notes**

For optimum mark quality, an even coat of the LMC product should be applied. If the material is applied too thin, the marks will not be as dark. If the material is applied too thick, more power will be required to make the mark and bonding may be incomplete. Applying the LMC series products will require practice to achieve the right coverage. It is also important to allow the coating to dry thoroughly.

→ **Marking Notes**

For optimum mark quality, an even coat of the LMC product should be applied. If the material is applied too thin, the marks will not be as dark. If the material is applied too thick, more power will be required to make the mark and bonding may be incomplete. Applying the LMC series products will require practice to achieve the right coverage. It is also important to allow the coating to dry thoroughly.

→ **Product Preparation**

Ensure that the product has been well mixed prior to use. Some settling may occur during extended storage periods. Material temperature should be equivalent to room temperature prior to viscosity measurement or application.

→ **Storage**

Product must be stored in cool and dry conditions. Storage temperature should be between 40°F (5°C) and 95°F (35°C). Settling may occur if stored for long periods of time. Before use, products must be stirred thoroughly. Partly used containers must be tightly sealed after use. If stored as recommended, a minimum shelf life of six months after the production date is guaranteed.