

CerMark Ultra FAQ's

Q: After engraving on my uncoated metal, why did the engraved portion wash off and fail to bond to the metal?

A: CerMark process is a thermal bonding process which requires the heat energy from the laser. Double check that you are using appropriate laser power, laser speed and exact focus. (See suggested starting settings per laser wattage and material on technical data sheet.)

Other potential factors:

- Ensure that the uncoated metal surface is clean and free of oils, grease, lubricants, dirt and other coatings.
- Ensure the CerMark coating is thin and even on the metal surface.
- Ensure that the CerMark coating is fully dry before laser marking. Allow 3-5 min. to dry. Do not force dry CerMark with heat lamp, air blowers, or fans.
- Ensure aerosol can is thoroughly shaken before use: allow agitator ball to rattle for at least 2 min. For best results use aerosol can in a 70-90°F environment.
- If CerMark paste is diluted for use in a spray gun, ensure that only ethanol is used for dilution. Dilute at 1:1 ratio by volume: 1 part ULTRA – 1 part ethanol.

Q: Is this material safe to use?

A: When spraying or brushing on, use as a paint product. Do not spray in a confined area. CerMark does not contain cadmium. CerMark materials are safe when used properly in a well-ventilated area or spray booth designed to pull air away from the user.

Q: CerMark works on stainless steel, but won't bond to chrome?

A: Softer metals require more power or slower speeds to obtain a permanent mark. We recommend at least a 50 Watt CO2 lasers for such metals. Several laser test markings may be needed to find the best settings for chrome and other metals.

Q: What should we use to remove the UN-engraved CerMark Ultra ?

A: Wash unused Cermark Ultra off with water and a soft nylon scrub brush, wet towel, or sponge.

Q: How durable is the CerMark engraving?

A: CerMark Ultra is resistant to common strong acids, bases, organic solvents, and extreme heat and cold. It is also scratch resistant, salt spray, and outdoor weather resistant.

Highest durability is achieved when CerMark Ultra is applied properly on a clean, dry surface using optimal laser settings. In order to test the durability of the Cermark Ultra coating, it is recommended to run several test markings using different laser setting combinations, then scrub the test marks with a 3M Scotch-Brite pad or medium-duty scrub pad. Choose the best laser settings based off of the results of the scrub tests.

Q: On what materials can CerMark Ultra be used?

A: CerMark Ultra allows CO2, YAG, and Fiber lasers to mark the follow substrates: Uncoated metals such as stainless, brass, aluminum and more as well as ceramics (glazed or unglazed), glass, porcelain, brick (glazed & unglazed), stone, slate, and more. Produces high contrasting, highly durable marks; fast drying; will not stain sensitive metals such as brass, nickel and others.