



C-PLATE[®]

COPPER RICH AEROSOL COATING

DESCRIPTION

C-PLATE is specifically designed to aid in the break-in process of freshly cut threads where platings or coatings are not available or desired due to the occupational or environmental hazards of those chemicals. It can also be used in conjunction with plated surfaces providing additional protection.

C-PLATE provides a durable micro-thin coating of copper to machined surfaces aiding in preventing galling during the break-in process. The micro-sized copper flakes adhere to the steel, utilising a high-tech thermal set silicone resin that air cures at room temperature in 4 to 6 hours. With the addition of heat, an even stronger, more durable bond may be achieved. Once cured, **C-PLATE** forms a durable, corrosion resistant finish, which may then be burnished into the steel surface during the initial work hardening of the threaded connection. The thin copper coating provides a dissimilar metal, which acts to prohibit the metal to metal contact under bearing loads, which may cause galling damage to threaded connections.

ADVANTAGES

- Lead and zinc free
- Contains no ozone depleting substances
- Fast evaporating
- Prevents galling during break-in process
- Provides a durable, corrosion resistant finish on fresh cut threads
- Grease free, solid film protective coating

APPLICATIONS

For use on fresh cut threads, flanges, screws, bolts, bushings, studs and drill collar, drill pipe connections. Surfaces should be clean and oil-free for best results.

C-PLATE is a major component in a two phase system to prevent galling in stainless steel and other high nickel and non-mag drilling components when used in conjunction with **KOPR-KOTE** Drill Collar and Tool Joint Compound.

PRODUCT CHARACTERISTICS

| | |
|-----------------------|---|
| Colour: | Copper coloured fluid with characteristic solvent odour |
| Appearance: | Micro-sized copper flakes in suspension |
| Relative Density | 0.88 |
| Flash Point | -20°C (-4°F) |
| Typical Coverage: | 2,400 sq. in./12oz can 43,500 sq. in. per 1 gal-bulk |
| Pencil Hardness: | |
| 1 to 24 hr. ambient | = 4B minimum |
| 3 weeks @ ambient | = 2B minimum |
| 1 hr. @ 93°C (200°F) | = 3B minimum |
| 24 hr. @ 93°C (200°F) | = 1H minimum |

PACKAGING

| Code No. | Size | Container |
|----------|------------|-----------|
| JA61740 | 12 x 400ml | Aerosol |

LIMITED WARRANTY

Jet-Lube (UK) Limited makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube (UK) Limited materials and workmanship. This limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube (UK) Limited. The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube (UK) Limited shall not be liable for incidental or consequential damages

PROPER APPLICATION OF C-PLATE™ TO A CONNECTION

1. Shake or stir product very well to disperse all the micro-sized copper in the can.
2. Spray or paint an even coating onto the connection.
3. Allow the film to dry completely (at-least one hour, preferably more).
4. For optimum hardness and solvent resistance, heat the finish using a heat gun that blows super heated air, of the type normally used for paint stripping and fitting heat-shrink sleeves on cables, or a propane torch (allow the tip of the flame to brush the surface). Slow, smooth passes should cause the copper finish too lightly tarnish or darken. When it has darkened, the resin should be properly hardened. Allow one hour or until the connection has cooled before engaging.
5. For applications where heating is not possible, a 24-hour air cure at normal room temperatures will provide a durable coating.

NOTE: If heated too long, the resin will begin to smoke and the film will blacken. A hard protective film will still be present but will be cosmetically unattractive.

CAUTION: AFTER APPLICATION, THE CAN MUST BE INVERTED AND SPRAYED TO CLEAR THE SPRAY TIP AS THIS PRODUCT IS HIGH IN SOLIDS. C-PLATE SHOULD BE USED AT ROOM TEMPERATURE TO PRODUCE A FANNED SPRAY. COLD TEMPERATURES CAUSE A PRESSURE DROP WITHIN THE CAN THAT AFFECTS THE SPRAY PATTERN.

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