

# GRIFCOTE® BIO GOLD

## Technical Data:

COLOR	Deep yellow to brown
ODOR	Moderate
BIODEGRADABILITY	Less than 28 days half-life based on University of Kentucky studies
FLASH POINT	>300° F ASTM Method D-56 (closed cup)
VISCOSITY	46.0 CPS @ 21°C (Brookfield)
SPECIFIC GRAVITY	0.90 g/ml
WATER SOLUBILITY	NIL
APPLICATION RATE	300 ft <sup>2</sup> to 2500 ft <sup>2</sup> per gallon depending on method of application & type of form being used.
VOC COMPLIANT	Yes-Considerably less than 250 g/L based on EPA Method 24

## PACKAGING:

Totes  
Drums  
Pails



**GRIFCOTE® Bio Gold\*** offers the concrete industry a form release that is both VOC compliant and is *readily biodegradable*.

**GRIFCOTE® Bio Gold\*** is a proprietary blend of vegetable oil base stock that promotes clean and easy separation from all types of forms while deterring build-up and sticking. The natural ingredients contained in **GRIFCOTE® Bio Gold\*** creates a metallic soap that reduces bonding/adhesion, while promoting quick and clean stripping. This release agent provides maximum performance to precast concrete, prestressed concrete, poured walls and all other concrete forming processes. **GRIFCOTE® Bio Gold\*** can be used with dry cast and wet cast operations, packer head or vibratory.

**GRIFCOTE® Bio Gold\*** is non-staining and works well with white, gray or colored concrete. Bug Holes are minimal due to the metallic soap formed after the casting process that minimizes encapsulation of air to vertical sidewalls, allowing free air to rise more easily to the surface. The release characteristics are enhanced with the formation of the metallic soap, which also minimizes cleaning of forms and pallets/headers after stripping or tip-out.

**Biodegradability**—**GRIFCOTE® Bio Gold\*** is readily biodegradable based on University of Kentucky studies. (EPA regulations require that a material have a half-life of 28 days or less to be considered readily biodegradable. ASTM D5864/OECD 301B))

## Application:

Form surfaces should be dry and free from concrete build-up before **GRIFCOTE® Bio Gold\*** is applied. No mixing or dilution is necessary prior to use. Application may be done using conventional or airless spraying equipment, rollers, mops, wipe-on or any other conventional method of applying form release agents. Over application should be avoided to prevent runs or puddles, which will create surface voids in the finished concrete surface.

\*Application rates will vary depending on forms and application method.

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**GRIFCOTE® Bio Gold\*** should be applied as thin as possible, preferably less than 5-mil (.005 in.) to help avoid the possibility of surface voids. On new wood forms (untreated) application should be 300-400 square feet per gallon. On seasoned wood forms, application should be at the rate of 500-700 square feet per gallon. Conventional plywood forms, at a rate of 800-1000 square feet per gallon. On high density coated plywood forms, metal forms (steel and aluminum), rate of application will be up to 2500 square feet per gallon, with 1800 square feet per gallon being typical.

**GRIFCOTE® Bio Gold\*** will have viscosity changes due to temperature variances. In colder weather, larger tip orifice sizes and/or increased pressure will be needed to achieve minimum application rates and maximum coverage. Contact your Hill & Griffith Technical Sales Representative or Distributor for additional information.

#### **Volatile Organic Compound Data**

Effective September 13, 1999, the United States Environmental Protection Agency has issued VOC limitations on concrete form release agents. Reference to these regulations can be found in the Federal Register, Vol. 63, No. 176, Friday, September 11, 1998 under 40 FR-59 [AD-FRL-6149-7], RIN 2060-AE55, National Organic Compound Emission Standards for Architectural Coatings, pages 48848-48887. **GRIFCOTE® Bio Gold\*** is in compliance with these regulations and contains considerably less than 2.1 lbs. per gallon/250 grams per liter of VOC compounds based on EPA Method 24. **GRIFCOTE® Bio Gold** is in compliance with all VOC regulations in the United States, Canada, Puerto Rico and Mexico.

#### **Storage:**

All material containers should be kept tightly closed to avoid contamination. Drums and pails should be kept in a vertical position. Material should be stored in a protected area. Do not store material in unlined metal contains (brass, bronze, copper, ductile, malleable or gray iron, mild steel or aluminum). Material should be stored in plastic containers, lined containers or stainless-steel containers.

A Material Safety Data Sheet should be reviewed prior to application for safety equipment that may be needed.

\*Patent No.: 6,811,810