



FORM RELEASE GOLD™

Premium VOC
compliant
concrete release
agent

Advantages:

- Usable on metal, aluminum, wood, and plastic forms
- Allows clean easy release on strike without damage
- Assists in maximum reuse of forms
- Ready to use as is
- Better coverage than most oils

Coverage:

- Hard smooth surfaces – 1500 ft² per gallon (36.8m²/L)
- Pre-treated plywood – 1200 ft² per gallon (29.5m²/L)
- Untreated plywood – 800 ft² per gallon (19.6m²/L)

See Coverage
section for full
details

Packaging:

5 gal (18.9L) pail
55 gal (208.9L) drum



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publications

Product Description

FORM RELEASE GOLD™ is a premium release agent for precast and architectural concrete. It contains special VOC compliant oil and other substances that react chemically with the alkali from the concrete to produce a release agent that positively prevents bonding between the poured concrete and the form. Being a chemical not a lubricating type release agent results in concrete with fewer and smaller air voids as the chemical action allows the entrapped moisture and air to slide up and out of the form more easily with the same amount of concrete vibration. The oil and chemicals used are stable; they resist rain wash-off and will not deteriorate from sun or heat to form a jelly-like residue. FORM RELEASE GOLD™ provides a clean release without damage to either the concrete face or the form.

FORM RELEASE GOLD™ will pro-long the life of plywood forms. It also contains a rust inhibiting agent to reduce rusting of steel forms. It will not stain concrete when applied according to directions.

Lambert Corporation has several types of form release agents available; some are better suited to a particular form material or job condition than others. The best way to evaluate the use and performance of a form release agent is to try it under actual or near actual job conditions.

FORM RELEASE GOLD™ is used on wood and plywood forms, steel and aluminum forms, fiberglass forms, treated paper or composition forms.

Installation

Before using this product, please refer to the Material Safety Data Sheet for additional information. Proper handling precautions MUST be followed. The conditions of use, handling, and application of this product and information (whether verbal or written), including any suggested formulations and recommendations, are beyond Lambert

Corporation's control. Therefore, it is imperative that testing be performed to determine satisfaction and suitability for intended use and health, safety, and environmental issues. The following information is meant as a guideline of best industry practices. While Lambert Corporation does suggest adherence to these guidelines, unforeseeable variables and/or developed successful installer practices may cause variation in methods and/or results.

Surface Preparation

It is very important for the formwork to be as clean and dry as possible and free from splashes of extraneous oils or greases, hardened concrete, tying wire, or anything that could possibly contaminate the concrete. The application equipment used must also be clean and not be employed for any other kind of work.

Application

The objective in applying a release agent is to achieve a thin, uniform and complete film coating. No matter how efficient the form release being used, applying too much is as bad as too little. A very thin film of FORM RELEASE GOLD™ assures a positive release and leaves an unstained architectural surface that minimizes surface voids and prevents surface glaze. The method of application must be related to the particular job, to the type of forms, and to the type of release agent used. Application of FORM RELEASE GOLD™ is usually by spray, brush, or roller. Spraying is the preferred method of application. Airless spray is more satisfactory than compressed air sprays for large job applications. For small applications, a hand pressurized industrial pump sprayer works well. Spraying pressure should be 25-30 PSI or higher. Flat spray tips produce the most uniform and thinnest film of release agent. Forms should be coated prior to each use. Prior to coating new plywood forms, apply one or two heavy brush coats to edges for waterproofing protection. FORM RELEASE GOLD™ works best when applied to forms lying flat on the ground. Spread uniformly with cross spray to avoid pin holes and uncoated areas. When forms are vertical

a thin uniform application is important, spraying at the top and flooding surface all the way to the bottom will result in a heavy buildup of form release on the forms especially at the bottom. Care should be exercised to avoid over application. Excess material in the form of puddles should be wiped off with rags.

Limitations

All forms should be dry at time of application. Wash-off of FORM RELEASE GOLD™ by hard rain is common especially if the surface was wet at time of application. Strong sunlight and/or drying winds are detrimental to release agents, especially if they are exposed to these conditions for long periods. Dilution with diesel fuel, mineral spirits, or other solvents, may lead to increased difficulty in stripping forms, an excess of concrete build-up on forms, and an increased chance of concrete staining. Improper vibration, placement techniques, sticky mixes and other influences may contribute to bug holes. FORM RELEASE GOLD™ may cause dusting if over applied.

FORM RELEASE GOLD™ is not a tilt-up bond breaker. Do not use with black rubber forms. Black rubber forms will degrade rapidly when used with FORM RELEASE GOLD™. Not recommended for use as a release for patterned or stamped concrete, or for use when forms are to be removed in less than 12 hours unless heat is used to speed curing time. Lambert does not recommend usage with zinc galvanized sprayers.

With many untreated woods or plywoods, particularly soft wood species, the release agent is absorbed according to the density of the material, pretreatment with FORM RELEASE GOLD™ is necessary prior to use. Any projection from a form face that prevents free movement of concrete at the interface is likely to produce defects in the finish. The absence of FORM RELEASE "Gold" on shiny, impermeable formwork may leave a dark discoloration in the concrete surface, conversely an excess can cause blowholes, dusting, retardation, and staining.

Technical Data

Applicable Standards

- Corps of Engineers CEGS-03300 Section 10.8 Form Coating

Properties

- Color: Red
- Flash Point: 166°F (74.4°C) TCC
- Solvents: Hydrocarbons
- Dry Time: 5-10 minutes
- Viscosity: 10 sec - #4 Ford Cup

VOC Rating

In accordance with federal regulations for form release compounds, the VOC content is less than 450 g/l (3.8#/gal.).

Coverage

Approximate Coverages:

- On hard, smooth surfaces - 1500 square feet per gallon (36.8m²/L)

- On pre-treated plywood, 1200 square feet per gallon (29.5m²/L).
- On untreated plywood, 800 square feet per gallon (19.6m²/L)

FORM TYPE	ft ² /gal	m ² /L
BB Ply Form	800	19.6
High Density Plywood	1200	29.5
Coated Ply Form Plastic	1500	36.8
Fiberglass	1500	36.8
Metal	1000	24.5
Paper Cardboard	650	16.0

Texture and absorption of forming material will dictate final coverage rate. It is important when using new wood forms of all types, plain wood, plywood, rough-cut, etc., that FORM RELEASE GOLD™ be applied and reapplied until complete saturation has been accomplished. Only then can proper release characteristics be obtained.

Clean-Up & First Aid

Clean-Up

Clean brushes, tools, sprayers, rollers and other equipment with mineral spirits or lacquer thinner.

First Aid

The skin of some people may be sensitive to the solvents used and in such cases protective gloves or creams should be worn and if necessary face protection.

Eye Contact: Hold eyelids open and immediately flush with plenty of lukewarm water for at least 15 minutes and call a physician.

Skin Contact: Wash thoroughly with soap and water. If irritation persists, seek medical aid.

Inhalation: Remove from exposure; administer oxygen if breathing is difficult. **Ingestion:** Do not induce vomiting. Small amounts of liquid aspirated into lungs may cause serious pulmonary injury.

Safety Equipment

Solvent resistant gloves, goggles and if applied in areas of poor or inadequate ventilation, use mine safety mask and canister (Organic Vapor Canister No. 77705 GMA).

**KEEP OUT OF REACH OF CHILDREN.
FOR INDUSTRIAL USE ONLY.**