



FORM RELEASE 88™

Chemically reactive type concrete form release agent for use on metal, aluminum, wood, and plastic forms.

PETROLEUM BASED

Advantages:

- Allows a clean and easy release or strike without damage to the concrete face or form.
- Assists in obtaining maximum reuse of forms.
- Supplied in a ready-to-use form.
- Better coverage than oils.
- Non-staining.
- Minimizes surface dusting.

Packaging:

55 gallon (209 liter) drums
5 gallon (19 liter) pails



LAMBERT CORPORATION
20 N. COBURN AVENUE, ORLANDO, FLORIDA 32805
PHONE: (407) 841-2940 TOLL FREE: 800-432-4746
FAX: (407) 839-1890
WEBSITE: <http://www.lambertusa.com>

Revision: June, 2002

Supersedes all previous publications

Product Description

FORM RELEASE-88™ is a general purpose, chemically active concrete release agent. It contains substances which react chemically with the alkali from the concrete to produce a release agent that positively prevents bonding between the poured concrete and the form. FORM RELEASE-88™ is a chemical type release agent, not a lubricating type. The result is concrete with fewer and smaller air void. The chemical reaction allows the entrapped concrete with fewer and smaller air voids. 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 chemicals used are stable; they resist rain wash-off and will not deteriorate from the sun or heat or form a jelly-like residue. FORM RELEASE 88™ provides a clean and easy release without damage to either the concrete face or the form.

FORM RELEASE-88™ will prolong 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.

Basic Uses

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-88™ is used on wood and plywood forms, steel and aluminum forms, fiberglass forms, treated paper or composition forms.

Composition and Materials

Petroleum distillate, diesel, fatty acid material and proprietary additives.

Applicable Standards

Corps. of Engineers CEGS-03300, Section 10.8 Form Coating.

Technical Data

Color	Red
Flash Points	166°F (74.4°C) TCC
Solvents	Hydrocarbon
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.).

Installation

Before using this product, please refer to the MSDS for additional cautionary information and safe handling instructions. Proper handling precautions MUST be taken.

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 other concrete contaminants. The application equipment used must be clean and not be used 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-88™ 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-88™ 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-88™ 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. Wipe up excess material that puddles inside formed areas.

Limitations

All forms should be dry at time of application. It is not uncommon for FORM RELEASE-88™ to wash off surfaces exposed to hard rainfall, particularly if form surfaces were wet at time of form release 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 bugholes. FORM RELEASE-88™ may cause dusting if over-applied.

FORM RELEASE-88™ is not a tilt-up bondbreaker. Do not use with black rubber forms. Black rubber forms will degrade rapidly when used with FORM RELEASE-88™. 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.

Pretreatment with FORM RELEASE-88™ is necessary on many untreated wood forms and plywood surfaces because wood densities vary (particularly those of softwood species). 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-88™ on shiny, impermeable formwork may leave a dark discoloration in the concrete surface, conversely an excess can cause blow-holes, dusting, retardation, and staining.

The conditions of use and application of FORM RELEASE-88™ and information (whether verbal or written), including any suggested recommendations are beyond our control. Therefore it is imperative that you test our product and information to determine to your own satisfaction whether it is suitable for your intended use and application. This application or specific analysis must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint.

Coverage

Approximate Coverages on:

Hard, smooth surfaces:	1500 square feet per gallon (37 m ² /litre).
Pre-treated plywood:	1200 square feet per gallon (30 m ² /litre).
Untreated plywood:	800 square feet per gallon (20 m ² /litre).

FORM TYPE	Sq Ft/gal	m²/litre
BB Ply Form	800	20
High Density Plywood	1200	30
Coated Ply Form Plastic	1500	37
Fiberglass	1500	37
Metal	1000	24
Paper Cardboard	650	16

Texture and absorption of forming material will influence coverage rate. It is important when using new wood forms of all types (plain wood, plywood, rough cut, and so on) that FORM RELEASE-88™ be applied and re-applied until complete saturation has been accomplished. Only then can proper release characteristics be obtained.

Storage

Store drums of FORM RELEASE-88™ upright or on side away from excessive heat. Retighten bungs on drums immediately after each use to avoid contamination. Empty containers may contain explosive vapors or residues. Do not cut or weld empty container. Store empty container away from sources of ignition.

CLEAN-UP

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

Safety - First Aid

Warning

Combustible: contains diesel fuel or mineral spirits. In case of fire use CO₂, dry chemical, universal type foams or water spray/fog. Cool closed containers with water.

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

First Aid

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.
NOT FOR INTERNAL CONSUMPTION.
FOR INDUSTRIAL USE ONLY.**

WARRANTY NOTICE

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: LAMBERT CORPORATION, (Seller) warrants that if any goods supplied prove defective in workmanship or material, that Seller shall replace them or refund their purchase price. THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS WHICH ARE HEREBY DISCLAIMED. IT IS UNDERSTOOD AND AGREED THAT BUYER'S SOLE REMEDY, AND THEREFORE SELLER'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL BE LIMITED TO THE RETURN OF THE PURCHASE PRICE PAID BY PURCHASER OR REPLACEMENT OF ANY DEFECTIVE GOODS SOLD BY SELLER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL

DAMAGES. THE PRICE STATED FOR THE GOODS IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. Any liability or risk resulting from the use of this product is assumed by the PURCHASER/USER except where a specific warranty is provided by the manufacturer in writing. Before application, the PURCHASER/USER shall determine the suitability of the product for his intended use and PURCHASER/USER assumes all liabilities and risks whatsoever in connection therewith. The terms of this WARRANTY NOTICE may not be orally modified. **THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.**

PRODUCT LIABILITY

LAMBERT products are designed to be used in the construction industry and should be applied by competent persons in accordance with current published instructions. Technical advice and recommendations as to the suitability of product for any particular use are made in good faith. However, we have no control over the conditions under which our products are transported to, stored, handled or used by the customer. We cannot be held responsible for difficulty caused by other materials and conditions, or by inferior workmanship. LAMBERT recommends that the customer satisfy themselves as to the product's actual suitability for its intended purpose.

LAMBERT reserves the right to have the true cause of any difficulty determined by accepted test methods by an independent party. Any claim regarding product defect must be received in writing within one year from day of shipment. No claim will be considered without such written notice or after the specified time interval.