

FORM RELEASE WB™

Revision: September 2011
Supersedes all previous publications



FORM RELEASES

FORM RELEASE WB™

MASTER FORMAT: 03 11 00

Product Description

FORM RELEASE WB™ is a ready-to-use concrete form release agent composed of an organic compound dissolved in water. It is a non-flammable, nearly odorless emulsion that can be used in a variety of form applications.

Many solvent based release agents impact the environment somewhat, especially if they are used in excess and allowed to run off the forms and into the ground. **FORM RELEASE WB™** is considered non-toxic and meets V.O.C. requirements for cast-in-place concrete construction and most OSHA and EPA regulations.

FORM RELEASE WB™ is a formulation designed to attack the problem of placed concrete bonding to the form. A light coating on forms prior to each use produces a clean release from the hardened concrete. It will also protect the forms and contribute to the overall quality of the concrete surface. It will not stain concrete when applied according to directions.

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

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 out under actual or near actual job conditions. Make a test panel or use the release agent on a non-architectural portion of the concrete.

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 which 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 WB™** 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 WB™** 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 30-40 PSI (0.2-0.28MPa) 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 WB™** works best when applied to forms lying flat on the ground. Spread uniformly with cross spray to avoid pinholes 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.

Properly applied film of **FORM RELEASE WB™** appears as many white spots very closely spaced. Clear oily blots appear as the water evaporates. The thinner the film the better uniformity plus forms strip easier.

Cautions

All forms should be dry at time of application. Wash-off of **FORM RELEASE WB™** by rain is very 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 water, 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 WB™** may cause dusting if over applied.

Limitations

FORM RELEASE WB™ will separate if it has been frozen once or if stored for more than 6 months. Slow thawing and vigorous stirring will, in most cases, renew **FORM RELEASE WB™**. Use Lambert's petroleum-based form release agent where freezing occurs.

Not recommended for use when forms are to be removed in less than 12 hours unless heat is used to speed curing time. Do not use with zinc galvanized sprayers. **FORM RELEASE WB™** is not a tilt-up bond breaker. Do not use on reinforcing steel.

Packaging:

55-gal (208.2L)
Drums

5-gal (18.9L)
Pails



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 WB™** 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 WB™** on shiny, impermeable formwork may leave a dark discoloration in the concrete surface, conversely an excess can cause blowholes, dusting, retardation, and staining. There are many problems posed by patterned concrete finishes, the majority of which need to be dealt with on an individual basis.

Technical Data

Applicable Standards –
 Corps of Engineers CEGS-03300 Section 10.8 Form Coating
 Corps of Engineers CW-03101 Sections 5.3 and 8

Properties	
Color	Milky Pink/White
Flash Point	31°F (-0.6°C)
Dry Time	10 - 20 Minutes
V.O.C.	0
Opacity	Pink/White – Opaque

Coverage

Approximate Coverages	
On Hard, Smooth Surfaces	1500 ft ² /gal (36.8 m ² /L)
On Pre-treated Plywood	1200 ft ² /gal (29.5 m ² /L)
On Treated Plywood	800 ft ² /gal (19.6 m ² /L)

Forms may be used 1 hour after the application of **FORM RELEASE WB™**

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 WB™** be applied and reapplied until complete saturation has been accomplished. Only then can proper release characteristics be obtained.

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.**