



## DATA SHEET NO. 3150-112

### DUOGARD® Form Release Agent

#### DESCRIPTION

DUOGARD form release agent is a ready-to-use mixture of organic chemicals, which react with the concrete alkali to prevent bonding of the concrete to the form, and a chemically inert, high-molecular weight non-reactive ingredient, which also facilitates form removal. This combination provides both chemical and physical (DUO) separation for highly effective form release.

#### USES

DUOGARD can be used on forms such as wood, steel, aluminum, fiberglass-reinforced, all grades of plywood (pre-oiled, overlaid, LDO, NDO, HDO, MDO), epoxy-coated, and urethane-coated, as well as fiber tubes. DO NOT USE on expanded polystyrene (foam), rubber, latex, or latex forms made from SBR or natural rubber. Wood forms should be saturated prior to first use. DUOGARD increases the life of wood forms by penetrating into the wood to waterproof and prevent deterioration. It also reduces maintenance requirements on metal forms by forming a rustproof film that makes the metal form essentially self-cleaning and rust-free.

DUOGARD should be applied to fiber tube forms even though they may be pre-coated. Tubes will strip much easier, even 60 to 90 days later. If tubes are stripped in 5 to 10 days, hand rubbing is greatly facilitated when tubes are coated with DUOGARD.

DUOGARD also cuts machine cleanup time because it minimizes concrete buildup. Pavers, trucks, mixers, spreader-finishers, buggies, chutes, and other types of equipment should be sprayed daily with DUOGARD for easy cleanup and rust prevention. DUOGARD can be applied on forms for pre-stressed and precast concrete to produce a better and cleaner cast. The product will not stain or discolour concrete. DUOGARD is also available in a true water-based formula, DUOGARD II.

#### FEATURES/BENEFITS

- Dual separation properties eliminate bonding between concrete and form.
- Low odour.
- Permits easier stripping of forms, even up to 90 days later.
- Unique formulation allows for superior coverage - lower costs.
- Does not stain or discolour concrete.
- Does not inhibit bond of paint, plaster, and epoxy concrete coatings.
- Increases the life of wood forms by covering and penetrating the wood to prevent water and alkali absorption from the concrete, and eliminates the swelling and delamination of plywood caused by oils.
- Reduces metal form maintenance by forming a rust-resistant film when applied prior to storage.
- VOC-compliant

#### PACKAGING

18.9 Litre Pails  
205 Litre Drums

#### COVERAGE

14.7 - 40.9 m<sup>2</sup>/L (719 - 2000 ft.<sup>2</sup>/Imperial Gal.). Coverage rate will vary depending on the method of application and the type of form. Recommended application rates are approximate.

#### SHELF LIFE

When stored indoors and in original, unopened containers at temperatures between 4 - 32° C (40 - 90° F), shelf life is a minimum of two years from date of manufacture.

#### SPECIFICATIONS/STANDARDS

- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations

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## TECHNICAL DATA

Colour	Amber
Viscosity (Ford No. 4)	10 seconds
Freezing Point	Less than -29° C (-20° F)
Staining	None

## APPLICATION

**Surface Preparation** ... Form surface should be clean and free of hardened concrete and other deleterious materials. Remove rust, scale, or previously used form oil from steel forms in accordance with good concrete practice, especially for architectural or exposed concrete surfaces.

**Application Method** ... Apply by low pressure sprayer, such as a Chapin 1949, equipped with an 80° fan pattern spray tip (such as a Chapin 1-5915), at a rate of 0.4 litres (0.08 gal./13 oz.) per minute in a light, even coat. When employing a brush or roller, take care to apply as thinly and evenly as possible. More is not better; a thin coating provides superior results.

New wood forms (not pre-coated) should receive at least two coats before being used.

All forms should be recoated before each subsequent use.

## PRECAUTIONS

Do not use on plaster moulds or in autoclaves. Harmful or fatal if swallowed. Avoid prolonged breathing of vapour or prolonged contact with skin. Use with adequate ventilation. Flammable - keep from open flame and excessive heat.

## MASTERFORMAT NUMBER AND TITLE

03 11 00 - Concrete Forming

For most recent data sheet, sustainability information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

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