



DATA SHEET NO. 3150-112WG

DUOGARD® WINTER-GRADE Form Release Agent

DESCRIPTION

DUOGARD WINTER-GRADE multi-reactive form release is composed of an organic chemical that reacts with the alkali content of concrete to form a release film that effectively prevents the bonding of the concrete to the form. In addition, the product also contains a high molecular weight and a non-reactive, chemically inert ingredient to assist in clean, quick form release and removal. These exclusive ingredients combine the effectiveness of a chemically reactive type and an inert barrier type to provide a doubly effective separation ... DUO ... and the ultimate in form release.

USES

DUOGARD WINTER-GRADE can be used on various types of forms (wood, steel, fiberglass, aluminum, as well as fiber tubes). Wood forms should be saturated prior to first use. DUOGARD WINTER-GRADE 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 WINTER-GRADE 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 WINTER-GRADE. DUOGARD WINTER-GRADE 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 WINTER-GRADE for easy cleanup and rust prevention.

DUOGARD WINTER-GRADE can be applied on forms for pre-stressed and precast concrete to produce a better and cleaner cast.

FEATURES/BENEFITS

- Easy to apply at colder temperatures.
- Provides a better and cleaner cast when applied on pre-stressed and precast concrete forms.
- Cuts stripping time to an absolute minimum.
- Reduces form cleaning and repairing.
- Increases wood form life ... prevents rust ... rustproofs metal forms.
- Effectively minimizes concrete buildup on pavers, R/M trucks, mixers, spreader-finishers, buggies, chutes, and other equipment.
- Breaks concrete bond between the surface and the form cleanly and effectively ... leaves smooth surface.
- Will not stain or discolour concrete and can be painted over, if properly applied.
- Ready to use ... requires no additional mixing.
- VOC compliant ... actual VOC content is 62.5 g/L.

PACKAGING

18.9 L Pail
205 L Drum

COVERAGE

14.7-36.8 sq. m/L (600-1500 sq. ft./gal.)

Coverage rate will vary depending on the method of application and the type of form. Recommended application rates are approximate.

TECHNICAL DATA

Flash Point, °C (°F) : >60 (140)
Colour: Amber
Minimum Application
Temperature, °C (°F): 18 (0)

Please refer to ACI 306-88R: Cold Temperature Concreting for standard construction practices relating to cold temperatures.

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APPLICATION

Surface Preparation ... Clean form surfaces thoroughly prior to application. Remove all rust, scale, and/or previously used form release agents from the forms in accordance with good concrete practices. It is imperative when using new wooden forms of all types, (plain wooden, plywood, rough cut, etc.) that DUOGARD WINTER-GRADE be applied and reapplied until complete saturation has been accomplished prior to first use.

Application Method ... Spraying is the ideal method of application. Use a spray tip with an 80° fan pattern that produces a flow of 1/10 of one gallon per minute. DUOGARD WINTER-GRADE may also be applied by roller coating, mopping, or brushing. A thin film should be applied for maximum economy and efficiency. Runs or puddles need to be brushed out. For metal forms, best results are obtained with a spray-on, "fog" application of DUOGARD WINTER-GRADE.

Cleanup ... Clean application equipment with soap and water.

PRECAUTIONS

For exterior use only. DO NOT OVER-APPLY DUOGARD WINTER-GRADE TO FORMS AND EQUIPMENT. DO NOT DILUTE. Do not use on plaster moulds or in autoclaves. Read and follow all label instructions, including application and precaution information, prior to use. Eye, skin, and respiratory irritant. Refer to Material Safety Data Sheet for complete health and safety information

2011 MASTERFORMAT NUMBER AND TITLE

03 11 00 – Concrete Forming

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.2: Low-Emitting Materials – Paints and Coatings
- MR Credit 2: Construction Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials

For most recent data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.

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