Chem Trend
Release Innovation™

PRODUCT DATA

Chemlease® 2191W

Water-Based Semi-Permanent Release Agent

Description

Chemlease® 2191W a semi-permanent, water-based release agent for FRP composite molding, including polyurethane and epoxy gel coat systems, as well as advanced composite epoxy and phenolic pre-preg molding. It is suitable for all varieties of molding techniques. Chemlease® 2191W provides minimal transfer of release agent, high-temperature stability, high abrasion resistance and is capable of multiple releases. Chemlease® 2191W cures rapidly and is a ready-to-use, environmentally friendly product. This Chemlease® product is designed to be applied from room temperature, up to 200°C/424°F.

Application

Chemlease® 2191W should be applied to a clean mold. We recommend Chemlease® Mold Cleaner for cleaning the molds prior to use.

Spray Application

To pre-treat or condition a clean mold, use conventional air spray equipment and hold the spray tip 4-10”/10-25 cm from the mold surface. Apply at least three, light, even coats; allowing sufficient time between each coat for water to evaporate. This three-layer application is known as the base coat. When the product has been applied in this way, at room temperature, allow at least 30 minutes for the base coat to cure before molding. This time can be reduced if the mold temperature is elevated.

Wipe Application

A 100% clean, bleached white, cotton cloth is recommended for application. The material should be wiped on in a thin, even film. Any excess runs, drips, or puddles should be wiped off with a second clean dry cloth. Three coats should be applied, allowing sufficient time between each coat for water to evaporate. Cure the base coat as in “spray application” instructions.

Reapply a light coat of Chemlease® 2191W when required to maintain desired release. For best results, allow a brief cure. To prevent buildup, avoid overapplication.

Important

The recommended number of coats and cure times are a general guideline found to be more than sufficient in a broad spectrum of molding conditions. When molding products with extreme geometries or experiencing low-humidity conditions in the shop, the customer may find the need to extend the cure time between coats and increase the number of coats applied to the mold. The efficiency of a release film is best determined through a combination of tape tests and experimentation.

Storage

Do not store Chemlease® 2191W at temperatures above 40°C/104°F. Keep from freezing. Keep container tightly sealed to prevent evaporation and/or contamination. If stored in cold temperatures, allow to warm to room temperature before using.

Handling

We believe Chemlease® 2191W has a low degree of hazard when used as intended. For more information, request a copy of Chem-Trend’s Material Safety Data Sheet.

Packaging

Chemlease® 2191W is available in 1-gallon, 5-gallon and 55-gallon containers.

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