

DE-COMP COMPOSITES, INC.

WATERSHIELD

WATERSHIELD can be considered a UNIVERSAL release. It is a high performance polymer coating that has been created to give multiple releases while exceeding the most demanding environmental requirements. WATERSHIELD has no VOC's and is so versatile it can be used for most molding operations and is preferred for application directly on warm mold tools. For a totally solvent-free mold release system, use WATERCLEAN, SEALPROOF and WATERSHIELD. ENVIROSHIELD should be used for high temp applications when spraying is desired, and when applications for each part are specified.

WATERSHIELD benefits are:

- ENVIRONMENTALLY SAFE
- No solvents or alcohol
- No CFC's, VOC's, or ODC's
- Fast cure * Easy recoat/touch-up
- Non-flammable
- No build-up on mold
- Thermal Stability
- High Gloss
- High slip/lubricity
- Aerospace approved

TYPICAL PROPERTIES

Appearance & Odor:
Carrier:
Flash Point [C.C]:
Coverage:
Wt/Gallon:
Cure Requirement:

Opaque liquid with bland odor
Water
None
Approximately 1200 Sq. Ft./Gallon
8.0 lbs/Gallon
Ambient or heat

USES

WATERSHIELD is recommended for releasing epoxies, phenolics, polyester resins, polyamides, polybismaleimides, various rubbers and elastomers. WATERSHIELD is specified for applications where the uses of flammable products or solvent based materials are not desired.

SURFACE PREPARATION

Before applying WATERSHIELD, all previous waxes or oils should be removed using WATERCLEAN, and then a suitable mold sealer should be applied. If surfaces have been coated with a semi-permanent release agent, it may be possible to simply solvent wipe, dry, and apply WATERSHIELD. A test patch should be done to confirm this possibility.

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WATERSHIELD (cont.)

MOLD CLEANING

WATERCLEAN has been developed to replace solvent-based cleaning solutions. **WATERCLEAN** is a stand-alone product that can be used to clean and prepare molds and/or parts when further processing is needed. **WATERCLEAN** provides an effective alternative for the removal of surface contaminants without harming the working surface of the mold and/or part. **WATERCLEAN** is **RECOMMENDED FOR MOLD PREPARATION BEFORE APPLICATION OF AN APPROPRIATE MOLD SEALER.**

MOLD SEALING

For wood, gel coat, steel, carbon-graphite, fiberglass, polyester, epoxy, urethane, and aluminum use **SEALPROOF** for a durable, highly visible, penetrating film with superior adhesion and especially with poor or porous surfaces. Additional water based sealers would be **SEALMATTE** (non-glossy surface) and **SEALBRITE** (high gloss surface).

HOW TO APPLY WATERSHIELD

1. Apply one light coat of **WATERSHIELD** to a small area of the mold using a Bounty paper towel, or hand sprayer.
2. Wait approximately 2 minutes, and then lightly wipe over the mold surface using a separate clean Bounty paper towel.
3. Wait 15 minutes and apply the second coat of **WATERSHIELD**.
4. Wait approximately 2 minutes, and then lightly wipe over the mold surface using a separate clean Bounty paper towel.
5. Allow a set time of 30 minutes before using mold. If application has been made to a warm surface, a shorter waiting period is needed. The use of heat (hot air, heat gun, oven) can enhance performance.
6. For touch up apply a single coat of **WATERSHIELD** as above and continue processing.

STORAGE & SHELF LIFE

Store in a dry area in the original closed container. **DO NOT** store at elevated or freezing temperatures. Shelf life - 12 months providing original container remains unopened.

SAFETY DATA

Material Safety Data Sheets (MSDS) are available for all products and should be consulted prior to use of product.

SHIPPING DATA

DOT SHIPPING NAME:	None
DOT HAZARD CLASSIFICATION:	None
DOT I.D. NUMBER:	None

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WATERSHIELD (cont.)

PACKAGING

WATERSHIELD is available in the following sizes:

- 1-U.S. gallon can
- 5-U.S. gallon pail

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