

# WATERSHIELD

Page 1 of 2

## DESCRIPTION

**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.

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

## TYPICAL PROPERTIES

Appearance & Odor	:	Opaque liquid with bland odor
Carrier	:	Water
Flash Point [C.C]	:	None
Coverage	:	Approximately 1200 Sq. Ft./Gallon
Wt/Gallon	:	8.0 lbs/Gallon
Cure Requirement	:	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 use 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.

## 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 Zyvox 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 product between 5°C and 30°C (41°F and 86°F). Shelf life is 18 months from the date of manufacture, in the original unopened container.

**USE LIFE** Use life of product is 60 days from opening of container. Product must be kept in the original container and the lid replaced immediately after dispensing. After opening, product should continue to be stored properly. Maximum product life is not to exceed 18 months from Date of Manufacture.

**WARNING** Never puncture any Zyvox product container.

### **SAFETY DATA**

Material safety data sheets are available for all ZYVAX 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

### **PACKAGING**

**WATERSHIELD** is available in the following sizes:

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

### **LIMITATIONS OF LIABILITY**

To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance, and are subject to change without prior notice. User must contact **ZYVAX** to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to **ZYVAX** quality control. We assume no responsibility for coverage, performance, or injuries resulting from its use. Liability, if any, is limited to replacement of products. **NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ZYVAX, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING FITNESS FOR A PARTICULAR PURPOSE.**

REV. 1/99