

# DE-COMP COMPOSITES, INC.

## MULTISHIELD

MULTISHIELD is a high performance, general purpose, semi-permanent release coating. It offers effective multiple release efficiency with a wide range of molding compounds. For NON-VOC release agents, request technical data on ENVIROSHIELD.

MULTISHIELD benefits are:

- True semi-permanent multiple release capability
- Ease of Application
- Fast Cure \* Good Gloss
- No Transfer
- High Slip / Lubricity
- No build-up on mold
- Thermal Stability (> 900°F/480°C)
- Easy Recoat/Touch-Up

### TYPICAL PROPERTIES

|                    |   |
|--------------------|---|
| Appearance & Odor: | Clear, thin, liquid with characteristic solvent odor  |
| Carrier:           | Aromatic Naphthas   |
| Flash Point [C.C]: | ~ 100°F   |
| Coverage:          | 1200 Sq. Ft./Gallon   |
| Wt./Gallon:        | 7.29 lbs./Gallon  |
| Cure Mechanism:    | Chemical cross-linking and bonding following Solvent evaporation and reaction with atmospheric moisture |

NOTE: Product is moisture-sensitive. Container must be kept tightly closed when not in use.

### USES

MULTISHIELD is recommended for releasing epoxies, phenolics, polyester resins, polyimides, polybismaleimides, various rubbers and elastomers.

### SURFACE PREPARATION

Before applying MULTISHIELD, all previous waxes or oils should be removed using SURFACE CLEANER, and a suitable mold sealer should be applied. If surfaces have been coated previously with a semi-permanent release agent, it may be possible to simply solvent wipe, dry, and apply MULTISHIELD directly on top of existing surface. A test patch should be done to confirm this possibility.

### MOLD CLEANING

SURFACE CLEANER is a combination of solvents specially blended to aid in the preparation of new and used molds/tools prior to treatment with MOLD SEALERS AND RELEASE AGENTS. It readily removes waxes and other surface contaminants without harming or dulling the working surfaces of the mold.

# DE-COMP COMPOSITES, INC.

## MULTISHIELD (cont.)

### MOLDCLEANING(cont.)

**SURFACE CLEANER** will also clean brushes and spray equipment used to apply various release products and elastomeric materials. For a **NON-VOC** cleaner, use our **WATERCLEAN**.

### MOLD SEALING

**SEALER GP** is recommended whenever a mold/tool is completely cleaned or the mold surface has been scratched locally after demolding a component. **SEALER GP** forms a thin protective shield that extends the life of the mold surface and reduces the amount of release agent required. Apply **SEALER GP** in accordance with Technical Data Sheet.

### HOW TO USE

1. Apply **MULTISHIELD** to a small area of the mold 1-2 sq. (.2 sq. m.) using a Bounty paper towel, clean lint free cloth, or hand sprayer.
2. While still wet, gently wipe dry using a separate clean Bounty paper towel or lint free cloth.
3. Make sure entire mold surface is coated in this manner, slightly overlapping the last coated area if you are applying in sections. Be certain that all contours are adequately coated.
4. Wait for a minimum of 15 minutes.
5. Apply a second coat of **MULTISHIELD** in the same way, and wait for a minimum 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, and oven) can enhance performance.
6. For touch up apply a single coat of **MULTISHIELD** as above and continue processing.

### STORAGE & SHELF LIFE

- When stored in a cool, dry area (Temp. < 90°F/32°C) in the original unopened container, the product will remain active for more than one year.
- Do not store at elevated temperatures. Product is moisture-sensitive, and will react with atmospheric moisture if exposed. Keep tightly closed when not in use.

### SAFETY DATA

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

# DE-COMP COMPOSITES, INC.

## MULTISHIELD (cont.)

### SHIPPING DATA

|                            |                  |
|----------------------------|------------------|
| DOT Shipping Name:         | Resin Solution   |
| DOT Hazard Classification: | Flammable Liquid |
| DOT I.D. Number:           | UN 1866          |

### PACKAGING

MULTISHIELD is available in the following sizes:

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

NOTE: THE INFORMATION CONTAINED HEREIN IS BELIEVED BY DE-COMP COMPOSITES, INC. TO BE ACCURATE. HOWEVER, NO WARRANTY EXPRESSED OR IMPLIED IS MADE REGARDING THIS DATA, THIS MATERIAL, OR RESULTS THERE FROM WHETHER USED IN ACCORDANCE WITH OUR INSTRUCTIONS OR NOT. THE USER SHALL MAKE HIS/HER OWN TESTS TO DETERMINE SUITABILITY OF THIS MATERIAL FOR HIS/HER PARTICULAR PURPOSES, IN ANY EVENT, DE-COMP'S LIABILITY SHALL BE LIMITED TO THE PURCHASE PRICE OF THE MATERIAL.