

Michem® Lube 160 PFP

BRAND FAMILY OVERVIEW Michem® Lube is a versatile family of wax emulsions used to improve processing and performance in many industries, as well as provide a wide array of surface properties.

USAGE This phenol-free additive provides slip and anti-block properties when used in coatings for seeds, metal, wood and OPP films.

DESCRIPTION Anionic carnauba emulsion

PERFORMANCE ATTRIBUTES This product is used in many applications including the following:

| Market | Properties Imparted |
|-----------------------------|--|
| Automotive Care | <i>APEO free, buffability, gloss enhancement, lubricity, mar resistance</i> |
| Building Paints | <i>block resistance, lubricity, mar resistance, release, scratch resistance</i> |
| Can & Coil | <i>lubricity</i> |
| Exterior Wood Protection | <i>block resistance, lubricity, mar resistance, release, scratch resistance</i> |
| Functional Coatings | <i>block resistance, buffability, lubricity, mar resistance, release, scratch resistance</i> |
| Furniture Polish | <i>block resistance, buffability</i> |
| Interior Furniture & Floor | <i>block resistance, buffability, lubricity, mar resistance, release, scratch resistance</i> |
| Leather | <i>block resistance, buffability, lubricity, mar resistance, release, scratch resistance</i> |
| OEM Applied Wood Protection | <i>block resistance, buffability, lubricity, mar resistance, release, scratch resistance</i> |
| Overprint Varnishes | <i>block resistance, buffability, lubricity, mar resistance, release, scratch resistance</i> |

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|--------------------------------|---|--|
| PHYSICAL PROPERTIES | The following properties are typical but should not be considered specifications: | |
| Appearance: | Cream colored, opaque liquid | |
| Freeze/Thaw Stability: | Stable after 5 Cycles | |
| Non-Volatile (%) : | 24.5 - 25.5 | |
| Specific Gravity: | 0.99 - 1.01 | |
| pH: | 4.0 - 7.5 | |
| Recommended pH of your system: | 1.0 - 12.0 | |
| Brookfield Viscosity (cps) : | < 15 | |
| Spindle Number: | 1 | |
| RPM: | 60 | |
| Shelf Life (months) : | The product has a shelf life of 12 months from date of manufacture when storage and handling instructions are followed. | |

SITE OF MANUFACTURE (and PRODUCT CODE) USA (ML160PFP), Belgium (ML160PFP.E), Singapore (ML160PFP.S)

STORAGE Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep out of the reach of children. Store locked up.

HANDLING Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment.

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- The following information for this product, specific to each site of manufacture, is available upon request:
- Material Safety Data Sheets in various formats and languages (includes global chemical inventory listing)
 - Food Contact Declaration of Compliance (if applicable)

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