

Technical Data Sheet



W V C O

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service, innovation, and
integrity

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WV WAX EBE-4600-5021

Extended Wax Emulsion for Composite Panel Production

DESCRIPTION

Willamette Valley Company has formulated an extended wax emulsion product for use in wood composite panel production that is designed to reduce thickness swell and water absorption. This product has an embodied 20% reduction in wax solids, replaced by a bio-based, engineered extender, while still improving moisture resistance. This material can be applied as a stand-alone wax emulsion through established hardware, or co-applied simultaneously with pMDI adhesive resins. When co-applied, the product offers the added benefit of improved distribution, and thus performance for both individual materials.

WHERE TO USE

- OSB
- OSL
- Particleboard
- MDF

FEATURES AND BENEFITS

- Reduced Thickness Swell
- Reduced Water Absorption
- Reduced Wax Volatility
- Reduced Application (wax & resin when co-applied)
- 20% Wax Solids Replacement with Renewable, Bio-Based Extenders
- Conventional Wax Application, or Co-Applied as a Mixture with pMDI (isocyanate) Resins

PACKAGING

1-gal samples
Totes
Tanker Trucks

SHELF LIFE

3 months when properly stored.

STORAGE

Store this product in a clean, dry, shaded or covered environment above 45°F (7.2°C).
DO NOT FREEZE

TECHNICAL INFORMATION

TYPICAL PROPERTIES

Solids by weight	50%
Density at 77°F (25°C) (lbs./gal.)	8.20
Viscosity at 77°F (25°C) (centipoise)	50-100
pH	6.5-7.0

APPLICATION

Apply to blender and furnish through air nozzles or spin disk atomizers between 1-3% in relation to dry wood mass depending on performance needs. Can be co-applied, through an inline mix-tube with pMDI adhesives (optional, and can lead to improved distribution for each individual material). Check with your Willamette Valley Company representative for directions and recommendations for use with other types of application methods.

CLEAN-UP

As a neat wax emulsion, clean-up is simple and requires hot water, detergent and scrubbing. If co-applying with pMDI, lines and mixing tubes should be flushed with either excess extended emulsion or pMDI for any downtime durations longer than 30 Minutes. Additional clean-up procedures for co-application with pMDI will be established at the time of mix equipment installation.

NOTE

This product is supplied to the customer in a ready-to-use form. Any additions of water will result in degradation of the product performance.

HEALTH AND SAFETY

Before handling, you should become familiar with the Safety Data Sheet (SDS) regarding the risks and safe use of this product. To obtain an SDS please call 800-333-9826 or send an email to: msds@wilvaco.com.

CONTACT INFORMATION

Please see the side bar on the front page for the Division nearest to your location.

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