



norjohn limited

Emulsion Division

NORWAX[®] 527

PRODUCT DESCRIPTION

NORWAX[®] 527 is a high solids high melt point petroleum wax emulsion stabilized by an anionic emulsifier. **NORWAX[®] 527** is designed to impart water resistance, and therefore dimensional stability, to engineered wood products. Application of **NORWAX[®] 527** in production of Particle Board, Medium Density Fiber Board, Insulating Board, Hardboard, and Oriented Strand Board provides an effective means for control of water absorption, and thickness swell as determined by ASTM D1037-section 100-106, and other pertinent test methods. **NORWAX[®] 527** is an efficient wax emulsion sizing agent designed with an optimum emulsifier content.

PHYSICAL PROPERTIES

Appearance	White in colour
Density	0.94 ± 0.03 kg/L (7.8 ± 0.3 lbs/US gal)
Viscosity	less than 300 cPs
pH	10 ± 1.0
Solids Content (wt)	56.7 ± 2.0%
Particle Size	.5 to 1.0 µm
Chemical Stability	Alkaline soap stabilized emulsion

NORWAX[®] 527 exhibits excellent stability to shear stress

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NORWAX⁰ 527

APPLICATION

NORWAX⁰ 527 is formulated for direct application to PB chips, MDF and Dry Process Hardboard fibres, and strand for OSB without further dilution. Application in blenders just prior to resin addition is generally considered most effective for PB and OSB. Addition to refiners is suggested for MDF. Compatibility with resin systems should be investigated before direct mixing. Pre-mixing of **NORWAX⁰ 527** with resins containing high levels of catalyst is not recommended.

An initial concentration of 0.9-1.0% solids on weight of dry furnish is suggested. Application in manufacture of Insulating board and Wet Process Hardboard typically varies from 0.2-0.75% wax solids/dry solids. Application rate and point of addition to stock will vary with process conditions.

STORAGE AND HANDLING

Storage below 5 °C or above 40 °C is not recommended. Avoid localized direct heating. Product may not recover from freezing. Avoid conditions of high shear. Diaphragm, or progressive cavity pumps are recommended.

Slight separation of solids towards the surface interface will occur in storage for periods over ~4 weeks. Mild agitation or re-circulation is recommended prior to use if stored for extended periods.

Inventory of drums and totes should be used in lot sequence. Bulk storage tanks should be periodically inspected and cleaned in conjunction with a preventative maintenance program.

PACKAGING

Drums, Totes, Bulk tank loads

HEALTH & SAFETY

Refer to Technical bulletin 'Handling and Storage of **NORWAX⁰ 500 Series**'. Read and understand Material Safety Data Sheet prior to using. Handle in accordance with good industrial hygiene and safety practices. Intended for industrial use only.

All shipments are accompanied by a Certificate of Analysis. For additional information, performance testing, or other assistance, contact your Norjohn Emulsions Technical Representative.

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