



**norjohn limited**

*Emulsion Division*

# NORWAX<sup>o</sup> 203

## PRODUCT DESCRIPTION

**NORWAX<sup>o</sup> 203** is a refined paraffin wax emulsion intended for internal and external paper sizing or paper coating applications. **NORWAX<sup>o</sup> 203** is recommended for use in production of such products as milk cartons, foodwraps, and frozen food board. **NORWAX<sup>o</sup> 203** is Health Canada food packaging approved. **NORWAX<sup>o</sup> 203** is comprised of materials which are approved by the Food and Drug Administration under section 176.170 as components of paper and paperboard in contact with aqueous and fatty foods.

## PHYSICAL PROPERTIES

Appearance	Light tan in colour
Density	0.97 ± 0.02 kg/L
Viscosity	<300cPs
pH	5 ± 2.0
Solids Content (wt)	47%±3.0

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# NORWAX<sup>0</sup> 203

## APPLICATION

**NORWAX<sup>0</sup> 203** can be internally incorporated, or surface applied. In internal sizing, **NORWAX<sup>0</sup> 203** may be applied to augment use of rosin, improving finish and pliability at lower sizing costs. Concentrations range from 0.1-0.35wt% solids/solids for milk carton stock and frozen food board to 0.4-1.0wt% solids/solids for butcher wrap. Surface application at the size press in conjunction with starches and other agents improves sizing, and finish. Starches should be cooked if applicable prior to addition of **NORWAX<sup>0</sup> 203**. Application range is 0.1-.5wt% solids/solids. **NORWAX<sup>0</sup> 203** may also be applied at the calender to provide process lubrication, and improve gloss and printability of the treated stock.

## STORAGE AND HANDLING

Storage below 5 °C or above 35 °C is not recommended. Product may not fully recover from freezing, and may additionally separate when stored at elevated temperatures. Avoid localized direct heating including injection of steam into **NORWAX<sup>0</sup> 203** or size blends containing **NORWAX<sup>0</sup> 203**.

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. Avoid conditions of high shear. Diaphragm, or progressive cavity pumps are recommended. Drum and tote inventory should be used in lot sequence. Bulk storage tanks should be periodically inspected and cleaned in conjunction with preventative maintenance programs.

## PACKAGING

Drums, Totes, Bulk tank loads

## HEALTH & SAFETY

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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