



norjohn limited

Emulsion Division

NORWAX[®] 220

PRODUCT DESCRIPTION

NORWAX[®] 220 is a refined paraffin wax emulsion for internal and external paper sizing products. **NORWAX[®] 220** is recommended for use in production of paper and paperboard products in contact with dry food. **NORWAX[®] 220** is compliant with FDA guidelines for indirect food additives section 176.180 .

PHYSICAL PROPERTIES

Appearance	White in colour
Density	0.94 to 0.98kg/L
Viscosity *	< 300 cPs
pH	8 - 11
Solids Content (wt)	51% ± 3.0%

*Brookfield viscometer DVI, spindle # 2 @ 100 rpm

Products and information are intended for use by persons having skill and knowledge in the industry at their own discretion and risk. Product Bulletins are intended to provide general information on NJE products and should not be construed as guaranteeing specific properties of the product described or suitability for a particular application. Users cannot anticipate all conditions under which our products, or the products of other manufacturers are combined, stored or may be used. Users are advised to make their own tests to determine suitability. Unless otherwise agreed to in writing, NJE products are sold without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other product.

NORWAX^o 220

APPLICATION

NORWAX^o 220 can be internally incorporated, or surface applied. In internal sizing, **NORWAX^o 220** may be applied to augment use of rosin, improving finish and pliability at lower sizing costs. Concentrations will vary depending upon application. 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 the wax emulsion. **NORWAX^o 220** 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^o 220** or size blends containing **NORWAX^o 220**.

NORWAX^o 220 is formulated to be a highly stable emulsion. On extended periods of storage, however, mild agitation or re-circulation is recommended prior to use. Avoid conditions of extremely 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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