

PRODUCT INFORMATION

WARADUR® ELE

Product Description

WARADUR® ELE is a special wax blend, consisting of esters of long-chain fatty acids (mainly C28 – C32) with multihydroxyl alcohols. The corresponding esters exhibit chain length in the range of mainly C34 – C66. Product for the preparation of aqueous dispersions. A proprietary emulsifier mixture (APEO-free) is already incorporated in this blend.

General Advantages

WARADUR® ELE is easy to emulsify. Non-ionic emulsions can be prepared up to concentrations of 25 – 30 %. Because the wax is self-emulsifying, emulsions are easily prepared by stirring the solid flakes into hot water.

Technical support available upon request.

Examples of Use

- Mould release emulsions for PUR, epoxy resins
- Wood industry: mould release for aminoplast resins applied as laminates to furniture
- Paper and packaging: anti-blocking agent for PVC and other polymers
- Plastics industry: slip agent for injection moulding and for foam mouldings made from hot-cured polyurethane foam
- Technical information about emulsions preparation available upon request.

Delivery Specifications *

Characteristics	Unit	Target value	Method
Acid value *	mg KOH/g	25 – 35	ISO 2114
Saponification value *	mg KOH/g	110 – 140	ISO 3681
Drop point *	°C	82 – 88	ASTM 3954
Colour	–	pale yellow	AA 3.2.1.505
Viscosity @ 120 °C	mPas	10 – 20	AA 3.2.1.520
Density	g/cm ³	1.00 – 1.02	Ph. Eur. 2.2.5

Packaging and Handling

Physical form	Flakes
Packaging	Paper bag or Big Bag
Storage	Store at ambient temperature on a dry place. Protect from heat/overheating and direct sunlight. The minimum remaining period is 1.5 years and is defined as the minimum shelf life at the customer. Thereafter, tests of the chemical characteristics are recommended. The maximum shelf life of 5 years is indicated.

Safety

Consult SDS.

Delivery Time and Availability

Standard delivery time: 2 – 3 weeks. Preconditions can be met for achieving shorter delivery times on standard products when demanded by the market.

Remark: Voelpker's R&D department is permanently developing new special wax blends for the preparation of aqueous dispersions. Please contact us for your individual requirements.

Legislation

Food contact legislation:

- Product for technical applications

Other legislation:

- REACH compliant; all components registered or exempt (polymers, salts of fatty acids)
- RoHS and CONEG compliant
- Ingredients listed in all relevant National Inventories

For further information, please contact application@voelpker.com.