

RHEOLUXE® 811

Non-animal origin rheological additive for aqueous cosmetics and toiletries

GENERAL INFORMATION

RHEOLUXE® 811 is a high efficiency polyurethane thickener developed for use in aqueous systems.

RHEOLUXE® 811 is readily dispersible in water and water/organic mixtures. It has been especially designed for use in anhydrous formulations, where water is added at point of use.

RHEOLUXE® 811 is also particularly useful in emulsions and can be used in “cold process” systems. It is a non-ionic thickener, which provides shear thinning viscosity control of the emulsion’s and improves application properties.

RHEOLUXE® 811 is an alternative to traditional cellulose-based, polyacrylic and other urethane thickeners for stabilising emulsions.

INCI NAME

Steareth-100/PEG-136/HDI Copolymer

KEY PROPERTIES

Non-animal origin

Rheological control

CHEMICAL & PHYSICAL PROPERTIES

Colour/form	White powder
Active matter	99 – 100%
Cloudpoint (1% in water)	70 – 80°C
Melting point	53 – 63°C
Viscosity (2% in water)	100 – 1000mPa.s.

These are typical properties not to be used for specification purposes.

- Predictable, reproducible and stable viscosity control
- Shear-thinning viscosity
- Smooth and even application
- Emulsion stabilisation

Convenience

- Easy to disperse in water or can be incorporated into the mill base
- Disperse in water with high speed mixing, then add to formulation
- Can be added at any convenient stage of manufacture
- Gives a high degree of formulating flexibility
- Provides highly reproducible results for multi-site production requirements

Acceptability

- Non-abrasive
- Toxicologically safe ingredients

APPLICATIONS

- Powder products
- Makeup products
- Creams/ointments
- Hair preparations
- Sunscreens

TECHNICAL DATA SHEET

RHEOLUXE® 811

INCORPORATION

RHEOLUXE 811® additive is a shear-thinning powder product. RHEOLUXE 811® can be added at any convenient suitable stage during the manufacturing cycle.

If RHEOLUXE 811® is added to the water phase, it should be mixed until homogenous before adding any other ingredients. Alternately, it can be added at the end of the manufacturing process after emulsion has been formed and cooled.

LEVEL OF USE

The level of use of the RHEOLUXE® 811 will depend on the formulation. Typical addition levels are 0.2 –3.0%.

COMPATIBILITY

RHEOLUXE® 811 additives can contribute greatly to a formulation's stability. Care should be taken to determine the compatibility of the

RHEOLUXE® 811 additive with the actives, solvents or surfactant ingredients within a formulation.

HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

Store in a dry area away from excessive heat.

SHELF LIFE

RHEOLUXE® 811 has a minimum shelf life of 3 (three) years from date of manufacture.

QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business. Facility manufacturing RHEOLUXE® 811 has established strong quality management system and holds ISO 9001 certification.

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