

Technical Information

TEGO® RHEO 8600

TEGO® RHEO 8600 is a non-ionic thickener based on polyurethane

Physical properties

Appearance	clear to hazy liquid
Active content	25 %
Viscosity, dynamic (25 °C) DIN 53019	approx. 30 000 mPas

Benefits

TEGO® RHEO 8600

- is used as thickening agent for water-based systems
- provides good long term stability
- shows Newtonian flow behaviour
- is highly efficient even at lower pH-values
- improves levelling
- can be combined with other thickeners
- is solvent free
- does not contain emulsifiers

Applications

TEGO® RHEO 8600 is a very efficient thickener for dispersions based on acrylates, vinyl-ethylene-copolymers (VAE) and polyvinyl acetate (PVAc).

TEGO® RHEO 8600 provides high viscosity in dispersions where standard thickening agents such as acrylates at low pH or polyvinyl alcohols for PVAc/VAE-dispersions fail.

Its Newtonian flow behaviour is beneficial in applications wherein thick layers need to be applied such as in construction tapes.

Additionally, TEGO® RHEO 8600 is very useful, if the adhesive needs to be applied very precisely e. g. in dots without flowing apart. Such applications require a high viscosity that can stand high shear stress.

Dosage

The dosage of TEGO® RHEO 8600 may vary over a broad range (0.1 – 3.0 % as delivered). For first tests we recommend to start with a concentration of 1.0 % as delivered.

Handling

TEGO® RHEO 8600 can be added as delivered or from a pre-dilution.

For making a pre-dilution a ratio of 1 : 1 can easily be produced and introduced into any dispersion, therefore it is recommended.

If TEGO® RHEO 8600 is used as delivered the product needs to be stirred thoroughly in the dispersion to ensure a proper distribution of the thickener.

Food contact status

European Regulation 10/2011 and amendments

TEGO® RHEO 8600 can be used in accordance with the European Regulation 10/2011.

FDA regulations

TEGO® RHEO 8600 may be safely used in compliance with 21 CFR 175.105 as an adhesive component of articles intended for use in packaging, transporting, or holding food, with no restrictions.

Additionally Tego Rheo 8600 may be used as an additive in food contact applications in compliance with 21 CFR when used in concentrations not to exceed 0.015% by weight (area concentration of 37.5 mg/m²). When used as intended, Tego Rheo 8600 is not expected to become a component of, or otherwise effect, the characteristics of food and is therefore not a food additive as defined in section 201(s) of the Federal Food, Drug, and Cosmetic Act (FFDCA).

Storage stability

TEGO® RHEO 8600 is stable in closed containers for a minimum of 6 months.

TEGO® RHEO 8600 must be stored at frost-free conditions.

Registration status

The components of TEGO® RHEO 8600 are listed in the following chemical inventories:

EINECS, PICCS, TSCA, AICS, DSL, IECSC, ENCS and TCSI

Based on the submitted information of our raw material suppliers we can confirm, that TEGO® Rheo 8600 is compliant with EC Regulation 1907/2006 (REACH).

Packaging

200 kg plastic drums (800 kg each pallet)
1 000 kg container

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/interface-performance

