

RHEOLATE® 290

Associative Thickener for Waterborne Industrial Coating Systems

GENERAL INFORMATION

RHEOLATE® 290 is a 20% active polyether polyurethane associative thickener designed for waterborne industrial and decorative, pigmented, and clear, gloss and high gloss coating systems.

RHEOLATE® 290 is a highly efficient viscosity builder in the low- to mid-shear rate range. It provides a strong shear thinning flow behavior which makes it ideal for spray applications such as sprayed latex emulsions, dispersions, water reducible clear-coats and high gloss pigmented systems.

CHEMICAL & PHYSICAL PROPERTIES

Composition	polyether polyurethane dispersion in a mixture of water and diethylene glycol monobutyl ether
Appearance	milky to creamy viscous liquid
Active Content	ca. 20 %
Density	ca. 1.03 g/cm ³
Brookfield viscosity	ca. 5000 cps, 6 rpm
Solvent	water / diethylene glycol monobutyl ether (64 % / 16 %)

APPLICATIONS

- Pigmented and clear waterborne industrial coatings
- Industrial wood coatings
- Industrial metal coatings
- Decorative coatings
- Aqueous sealants

KEY PROPERTIES

- Highly efficient
- Imparts a strong shear thinning flow behaviour
- Excellent sag resistance and anti-settling
- Good flow and levelling
- Good optical properties of coating films
- APEO-free and Tin-free
- pH independent

continued...

RHEOLATE® 290

INCORPORATION

RHEOLATE® 290 is a pourable liquid and can be incorporated at any point in the formulation of most systems. Liquid associative thickeners are usually post-added for convenience.

RHEOLATE® 290 is a highly efficient thickener, and it is recommended to add the product slowly and allow sufficient mixing time.

Adjustment of the pH or dilution is typically not required for associative thickeners. In sensitive systems or under low shear mixing conditions, dilution with cosolvent and water (1:1) will facilitate uniform incorporation.

LEVELS OF USE

The typical level of use of **RHEOLATE® 290** is between 0.1 and 1.5 % (as delivered) by weight of the total formulation.

COMPATIBILITY

RHEOLATE® 290 is compatible with most waterborne formulations.

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.

SHELF LIFE

RHEOLATE® 290 has a shelf life of 2 (two) years from date of manufacture.

STORAGE RECOMMENDATIONS

RHEOLATE® 290 should be kept above 4 °C (40 °F). In the event of accidental freezing, thaw gently, stir to homogeneous before use.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

SUSTAINABILITY

RHEOLATE® 290 is a water-based, APEO-free and Tin-free product.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

© Copyright 2025, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Registered trademark of Elementis Specialties, Inc.

North America
Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
T: +1 609 443 2500

Europe
Elementis Portugal Lda.,
Rua Santos Pousada, no.262,
4000-478, Porto
Portugal
Tel: +351 221 215 791

Asia
Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
T: +86 21 5774 0348