

Mid-Shear Nonionic Synthetic Associative Thickener (NiSAT)

GENERAL INFORMATION

RHEOLATE® 658 is a 17.5% active solids, nonionic synthetic associative thickener designed for improving the rheology of interior and exterior deco paints. Paints formulated with RHEOLATE® 658 have a good balance of sag resistance and leveling and is suitable for use from flats through gloss paints.

The thickener is an urethane associative rheology modifiers and exhibits excellent compatibility with other RHEOLATE® thickeners. RHEOLATE® 658 can be used together with more Newtonian high-shear thickeners such as RHEOLATE® 212 or HX 6010 to customize the rheology profile of the coating.

RHEOLATE® 658 is environmentally friendly and contains no APEOs, VOCs, or tin. While designed for use in water based decorative paints the product can also be used in other water based systems including inks, textile coatings, adhesives and sealants. The product has a low viscosity and is a pourable and pumpable liquid.

PHYSICAL PROPERTIES

Composition	polyurethane solution in water
Appearance	Opaque liquid
Active Solids	17.5%
Total Solids	22.0%
Specific Gravity	1.03
Viscosity (cps)	< 4,000
VOC (ASTM D 6886-03)	<0.09%

APPLICATIONS

- Zero to Low VOC deco paints
- Water-reducible paints
- Adhesives and sealants
- Industrial water based coating systems
- Inks

KEY PROPERTIES

- Mid-shear (KU) rheology modifier
- Good balance of sag resistance and leveling
- Reduces spattering during roller application
- pH-independent
- Compatible with other rheological additives
- Allows broad formulating flexibility
- Compatible in all resin systems
- Very low VOC
- Ease of incorporation and use
- Good storage stability

INCORPORATION

RHEOLATE® 658 can be used as supplied or, if necessary, further diluted with water. Addition can take place at any time during the manufacturing process but incorporation into the mill base before letdown is recommended. RHEOLATE® 658 can be combined with other associative rheological additives, clay based thickeners or cellulosic thickeners for higher package viscosity.

LEVELS OF USE

Typical use levels of RHEOLATE® 658 are 0.2% to 1% (thickener solids weight) on total system weight.

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.

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REGULATORY

For the most current regulatory status, please refer to the safety data sheet (SDS) for RHEOLATE® 658.

HEALTH AND SAFETY DATA

Detailed information on handling and safety could be found in the SDS. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

STORAGE RECOMMENDATIONS

RHEOLATE® 658 should be kept above 4°C (40°F). In the event of accidental freezing, thaw gently, spread a portion between glass slides and examine for granules. If found, do not use.

PACKAGING

RHEOLATE® 658 rheological additive is available in drum, tote, and bulk packaging. Please contact your local Elementis Specialties representative for other packaging configurations.

SHELF LIFE

RHEOLATE® 658 has a shelf life of 24 months from date of manufacture.

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.

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