

TECHNICAL DATA SHEET

THIXOL™ 53 L

Acrylic Thickener and anti-settling & anti-sagging agent  
ASE Acrylic Thickener



26% Bio Carbon Content (only for EMEA supply)  
-21% Carbon Footprint Reduction (only for EMEA supply)

TYPICAL CHARACTERISTICS

|                    |                                            |
|--------------------|--------------------------------------------|
| Nature             | Aqueous dispersion of an acrylic copolymer |
| Appearance         | Low viscous white milky liquid             |
| Solid Content (%)  | 30                                         |
| Active Content (%) | 30                                         |
| pH                 | 3                                          |
| Specific gravity   | 1.06                                       |
| Solvent            | Water                                      |

DESCRIPTION

Thixol™ 53 L is a liquid acrylic self-associative thickener providing a strong pseudoplastic rheological profile to water-based systems. This product significantly prevents from settling and sagging without affecting levelling properties.

RECOMMENDED ADDITION LEVEL

0.1 - 1.0% as supplied on total formulation, which in most cases is below 0.5%.

STANDARD PACKAGING

Other packaging may be available upon request

- 1000L IBC
- 200L Drum
- Bulk

HANDLING & STORAGE

It can be irreversibly altered by frost. It should be protected from the effects of weathering and stored between 5 and 40°C and protected from direct sun exposure.

Once opened, packaging should be resealed immediately after use.

Film-forming product, surface may dry in contact with air.

A slight sedimentation can be visible at the bottom of drums or totes. This phenomenon is normal and has no impact on the use and level of performance as long as the solids content of the product meets the specification. If necessary, filter the product prior to its use.

In these conditions, this product should be used within 6 months from delivery.

MARKETS

Coatings & Inks

- Architectural Coating
- Graphic Arts
- Industrial Coating

Adhesives & Sealants

- Assembly
- Other Adhesives
- Pressure Sensitive Adhesives
- Sealants

KEY BENEFITS

FORMULATION

- Color acceptance
- Cost in use
- Easy handling



STORAGE

- Antisettling
- Syneresis resistance
- In-can appearance
- Viscosity stability



APPLICATION

- Brushability
- Dilution resistance
- Rollability



FILM PROPERTIES

- Rub out
- Gloss
- Levelling



SAFER SOLUTIONS

- APEO Free\*
- Heavy Metal Free\*
- LiCl Free\*
- MIT Free\*
- Solvent Free\*

\* Not intentionally added but not specifically measured (not part of product specification)

# THIXOL™ 53 L

## PROCESSING INSTRUCTIONS

THIXOL™ 53 L is a pure self-associative acrylic thickener, dispersed in water. It thickens with a pH preferably adjusted between 8 and 9, passing from its natural acid delivery form to neutralized and water soluble form. It develops its thickening efficiency through hydrophobic interactions which will influence viscosity at very low shear rate and thus will prevent from settling and sagging. The relatively slow viscosity recovery of THIXOL™ 53 L following the application provides a real thixotropic effect and improves the compromise between levelling and sag resistance: a better levelling will be reached without sagging. In order to obtain this effect, one should use the minimum quantity of THIXOL™ 53 L to hinder sagging and give a good film appearance. THIXOL™ 53 L can be combined with associative thickeners such as COAPUR™ 2025, COAPUR™ 3025, BR 100 P, RHEOTECH™ 2000 modifying high shear viscosity and reducing spattering, improving levelling and film build, especially in flat and semi-gloss paints. THIXOL™ 53 L can be used alone in very thick systems. There are no known compatibility problems with universal pigment pastes. THIXOL™ 53 L is a liquid product which is easy to use. It can be incorporated at any step of paint manufacture and especially at the final step.

## HEALTH AND ENVIRONMENTAL DATA

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

## THICKENING MECHANISM

Self Association      ●●●●●●  
Non Associative      ●●●●●●  
Associative      ●●●●●●

## VISCOSITY CONTRIBUTION

Low Shear contribution      ●●●●●●  
Mid Shear contribution      ●●●●●●  
High Shear contribution      ●●●●●●

## PVC

PVC Low      ●●●●●●  
PVC Mid      ●●●●●●  
PVC High      ●●●●●●

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