

TECHNICAL DATA SHEET

COAPUR™ XS 83

Solvent free liquid non ionic PU thickener

HEUR Polyurethane Thickener

TYPICAL CHARACTERISTICS

Nature	Water soluble non ionic polyurethane
Appearance	Yellowish liquid
Solid Content (%)	50
Active Content (%)	30
pH	7
Brookfield viscosity (mPa.s)	8000
Specific gravity	1.05
Solvent	Water

DESCRIPTION

Coapur™ XS 83 is a solvent-free polyurethane thickener recommended for water-bases systems which should combine high in-can viscosities with excellent pigment compatibility, for use on tinting machine, manual coloration, industrial and architectural coatings.

Coapur™ XS 83 provides a unique pseudoplastic rheology profile with a strong shear-thinning behavior. Its use ensures a smooth structure and an optimized ease of application by spray, roller or brush.

The highly pseudoplastic rheology profile, combined with a fast recovery of the viscosity following the application makes the Coapur™ XS 83 suitable for industrial and decorative applications requiring high film thicknesses and excellent sag resistance.

Coapur™ XS 83 contributes to improve colour strength and reduce rub-out issues when using pigment pastes, even in presence of problematic binders. The use of Coapur™ XS 83 also limits viscosity drop after pigment paste addition, pigment flooding and floating during storage.

RECOMMENDED ADDITION LEVEL

Recommended levels of addition (based on active content on total formulation) are as follows:

Alone in decorative paints: 0.1 to 0.8%.

Alone in industrial coatings: 0.1 to 1.0%.

Combined with a medium and/or high shear effective thickener in all kinds of formulations: 0.05% to 0.8%.

STANDARD PACKAGING

Other packaging may be available upon request

- 1000L IBC
- 220L Drum

HANDLING & STORAGE

It should be protected from the effects of weathering; stored between 5 and 40°C and sheltered from direct sun exposure. This product can be altered by frost. Once opened, packaging should be resealed immediately after use. In these conditions, this product should be used within 12 months from delivery.

MARKETS

Coatings & Inks

- Architectural Coating
- Graphic Arts
- Industrial Coating
- Textile & Leather Coating
- Traffic Paint

Adhesives & Sealants

- Assembly
- Other Adhesives
- Pressure Sensitive Adhesives

KEY BENEFITS

FORMULATION

- Color acceptance
- Compatibility
- Cost in use



STORAGE

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



APPLICATION

- Sag resistance
- Sprayability
- Brushability



FILM PROPERTIES

- Rub out
- Anticorrosion
- Gloss



SAFER SOLUTIONS

- APEO Free*
- Heavy Metal Free*
- Solvent Free*

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

THICKENING MECHANISM

Self Association
Non Associative
Associative



COAPUR™ XS 83


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.

VISCOSITY CONTRIBUTION

Low Shear contribution 
Mid Shear contribution 
High Shear contribution 

PVC

PVC Low 
PVC Mid 
PVC High 

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