

## 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-tinning 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

- Graphic Arts
- Architectural Coating
- 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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