

Solvent free liquid non ionic PU thickener

HEUR Polyurethane Thickener

Typical Characteristics

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

Health and environmental data

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

Adhesives and Sealants

- Assembly
- Other Adhesives
- Pressure Sensitive Adhesives

Coatings And Inks

- Architectural Coating
- Graphic Arts
- Industrial Coatings
- Textile And Leather Coating
- Traffic Paint

Key Benefits

Formulation

- **Color acceptance**
- **Compatibility**
- **Cost in use**

Storage

- **Antisettling**
- **In-can appearance**
- **Syneresis resistance**

Application

- **Sag resistance**
- **Sprayability**
- **Brushability**

Film Properties

- **Anticorrosion**
- **Rub out**
- **Chemical resistance**

Other

- **APEO free**
- **Heavy metal free**
- **Solvent-free**

Thickening mechanism

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

Viscosity contribution

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

PVC

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