

## TECHNICAL DATA SHEET

# COAPUR™ 817 W

Solvent free liquid polyurethane thickener

## HEUR Polyurethane Thickener

### TYPICAL CHARACTERISTICS

Nature	<b>Water soluble non ionic polyurethane</b>
Appearance	<b>Viscous whitish liquid</b>
Solid Content (%)	<b>29</b>
Active Content (%)	<b>17.50</b>
pH	<b>7</b>
Brookfield viscosity (mPa.s)	<b>3500</b>
Specific gravity	<b>1.03</b>
Solvent	<b>Water</b>

### DESCRIPTION

Coapur™ 817 W is a solvent-free and APEO free pure associative polyurethane thickener (also called HEUR, NISAT or NSAT). It can be used sole or in combination with other polyurethane thickeners or with other types of rheology modifiers such as acrylic or cellulosic thickeners. It increases specifically viscosities at medium and high shear rates in order to improve tool load, film build, leveling and brush drag.

### RECOMMENDED ADDITION LEVEL

As sole thickener in semi-gloss and satin dispersion paints: 0.1 to 0.6%, as sole thickener in one-coat matt dispersion paints: 0.3 to 1%, both based on active content. Combined with a low shear effective thickener in high PVC matt dispersion paints: 0.05 to 0.4% based on active content.

### 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. To be easily pumpable, it should be used about 20°C. The appearance of Coapur™ 817 W can evolve within time, progressively and from the bottom to the top, from a whitish appearance to a translucent yellowish appearance, the surface showing at the end a whitish phase. Such a change in appearance has no impact on the properties and use if the product. 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 us.

### MARKETS

#### Composites & Advanced Materials

- Graphic Arts

#### Coatings & Inks

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

#### Adhesives & Sealants

- Assembly
- Other Adhesives
- Pressure Sensitive Adhesives

### KEY BENEFITS

#### FORMULATION

- Color acceptance
- Compatibility
- Easy handling



#### STORAGE

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



#### APPLICATION

- Spatter resistance
- Brushability
- Film build



#### FILM PROPERTIES

- Rub out
- Levelling
- Gloss



#### SAFER SOLUTIONS

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

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

### THICKENING MECHANISM

Associative  
Self Association  
Non Associative



# COAPUR™ 817 W

## VISCOSITY CONTRIBUTION

High Shear contribution   
Mid Shear contribution   
Low Shear contribution 

## PVC

PVC Low   
PVC Mid   
PVC High 

**Headquarters: Arkema France**  
51, Esplanade du Général de Gaulle  
92800 Puteaux – France  
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

[arkema.com](https://www.arkema.com)

**ARKEMA**