

TECHNICAL DATA SHEET

COAPUR™ 4820

Solvent free liquid polyurethane thickener

HEUR Polyurethane Thickener

TYPICAL CHARACTERISTICS

Nature	Water soluble non ionic polyurethane
Appearance	Viscous whitish liquid
Solid Content (%)	33.50
Active Content (%)	20
pH	7
Brookfield viscosity (mPa.s)	6000
Specific gravity	1.03
Solvent	Water

DESCRIPTION

Coapur™ 4820 is a solvent and Alkyl Phenol Ethoxylate (APE) free polyurethane thickener designed for all types of water based formulations, especially the solvent free formulations.

Coapur™ 4820 can be used sole or in combination either with other polyurethane thickeners or with other types of rheology modifiers such as acrylic or cellulosic thickeners.

Coapur™ 4820 provides excellent coating properties due to its high associative effectiveness with every kind of binder.

Coapur™ 4820 increases specifically the viscosities at medium and high shear rates in order to improve tool load, film build, levelling and brush drag. Thanks to its exclusive rheological features, Coapur™ 4820 also prevents from settling and sagging tendency in low PVC formulations.

STANDARD PACKAGING

Other packaging may be available upon request
 • 1000L IBC • 220L Drum

HANDLING & STORAGE

It should be protected from the effects of weathering and stored between 5 and 40°C and sheltered from direct sun expose.

Once opened, packaging should be resealed immediatly 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 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

- Compatibility
- Easy handling
- Post addition



STORAGE

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



APPLICATION

- Spatter resistance
- Brushability
- Film build



FILM PROPERTIES

- Rub out
- Water resistance
- 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



VISCOSITY CONTRIBUTION

High Shear contribution 
Mid Shear contribution 
Low Shear contribution 

PVC

PVC Low 
PVC Mid 
PVC High 

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