

Solvent free liquid polyurethane thickener

HEUR Polyurethane Thickener

Typical Characteristics

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

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 of 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.

Adhesives & Sealants

- Assembly
- Other Adhesives
- Pressure Sensitive Adhesives

Coatings & Inks

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

Key Benefits

Formulation

- Color acceptance
- Compatibility
- Easy handling

Storage

- In-can appearance
- Viscosity stability
- Antisettling

Application

- Spatter resistance
- Brushability
- Film build

Film Properties

- Levelling
- Rub out
- Anticorrosion

APEO free: Yes

Bacteria resistance: Yes

Heavy metal free: Yes

Solvent-free: Yes

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	●●●●●