

Solvent free thickener for Alkyd emulsion paints

HEUR Polyurethane Thickener

Typical Characteristics

Nature	Water soluble non ionic polyurethane
Appearance	Viscous whitish liquid
Solid Content (%)	30
Active Content (%)	25
pH	7
Brookfield viscosity (mPa.s)	5000
Specific gravity	1.03
Neutralization type	Sodium
Solvent	Water

Description

Alkyd emulsion binders interact in a specific way with fillers, pigments and various hydrophobically modified additives in comparison with current water based emulsion binders (acrylic, styrene acrylic, ethylene vinyl acetate). Their reactivity is generally stronger which results in higher viscosities, particularly at low shear rates, and poorer storage stability. Considering those requirements, Coatex has designed Coapur™ XS 22, a specific thickener for alkyd emulsion system.

Recommended addition level

Half or a third of the total amount of it should be incorporated before the pigments and fillers addition, the rest at the end of formulation. The typical dosage should be selected in the range from 0.5 to 2% (active on total formulation weight), depending on the high shear viscosity to achieve.

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 us.

Adhesives & Sealants

- 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
- Syneresis resistance
- Viscosity stability

Application

- Spatter resistance
- Tinting resistance
- Brushability

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	●●●●○○