TECHNICAL DATA SHEET

BR 100 P

Thickening & levelling agent for Water-based systems

HEUR Polyurethane Thickener

TYPICAL CHARACTERISTICS

Nature	**Water soluble non ionic polyurethane**
Appearance	**Whitish liquid**
Solid Content (%)	**50**
Active Content (%)	**50**
pH	**5.5 (@10% in water, 25°C)**
Brookfield viscosity (mPa.s)	**2000**
Specific gravity	**1.06**
Solvent	**Water / Butylglycol (31/19)**

DESCRIPTION

Gloss emulsion paints require the use of thickening agents which give various properties such as water retention and rheological properties (film build, Brush-ability and levelling of the film). Usual thickeners in emulsion paints provide poor rheological properties, giving a bad film build and levelling or a poor compatibility with the various paint components, and a decrease of the gloss level due to the formation of a haze after drying. BR 100 P has been especially designed to solve these problems. It is suitable for the thickening of anionic and non-ionic emulsions and particularly with styrene-acrylics, vinyl-acrylics and other copolymers. Beside gloss emulsion paints, the main applications for BR 100 P are in semi-gloss, interior and exterior flat emulsion paints, in anti-corrosive paints, in adhesives.

RECOMMENDED ADDITION LEVEL

0,3 - 2,0 % as supplied on total formulation.

STANDARD PACKAGING

Other packaging may be available upon request
- 1000L IBC• 220L Plastic 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.

MARKETS

Composites & Advanced Materials
- Graphic Arts

Coatings & Inks
- Architectural Coating
- Industrial Coating
- Textile & Leather Coating

Adhesives & Sealants
- Assembly
- Other Adhesives
- Pressure Sensitive Adhesives

KEY BENEFITS

FORMULATION
- Easy handling
- Post addition
- Ready to use

STORAGE
- Viscosity stability
- In-can appearence
- Syneresis resistance

APPLICATION
- Brushability
- Rollability
- Spatter resistance

FILM PROPERTIES
- Gloss
- Levelling
- Transparency

SAFER SOLUTIONS
- APEO Free*
- Heavy Metal Free*

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

BR 100 P

PROCESSING INSTRUCTIONS

To obtain a better dispersion and homogenization, it is suggested to prepare BR 100 P as indicated below:20 parts of BR 100 P (50%) are slowly added to 80 parts of water under continuous stirring. The reverse procedure leads to a highly viscous phase and should be avoided. BR 100 P may be added either at the pigment grinding stage or at the end of the letdown after the polymer emulsion has been added, dispersion being carefully checked. The addition level of thickener must be determined according to the type of resin emulsion. The thickening power of BR 100 P depends greatly on the structure, the particles size and the emulsifier of the polymer emulsion, as well as the coalescent solvent used.
The maximum thickening of paint is obtained 24 hours after manufacture.

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.

THICKENING MECHANISM

Associative
Non Associative
Self Association

VISCOSITY CONTRIBUTION

High Shear contribution
Low Shear contribution
Mid Shear contribution

PVC

PVC Low
PVC Mid
PVC High

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