TECHNICAL INFORMATION

Rheology modifier for aqueous systems

Composition: Nonionic polyurethane in butyltriglycol/water, APE-, VOC- and organotin free

Appearance: liquid

Colour: white, turbid

Typical Properties:
- Active ingredients: approx. 40 %
- Density at 20°C: approx. 1.06 g/cm³
- Solubility in water: dispersible in water by mixing, results in turbid solutions
- pH (2% in dist. water): approx. 7.5

This information is intended as a guideline only and should not be used to issue specifications. Slight deviations do not affect application and capability of the product. For specifications please consult the Certificate of Analysis.

Properties/applications:
TAFIGEL PUR 48 is designed as an "associative thickener" which builds up and stabilizes viscosity by forming a network between polyurethane, binder molecules and pigment particles. TAFIGEL PUR 48 can be used alone or in combination with other TAFIGEL thickeners as well as with further thickener technologies. TAFIGEL PUR 48 is recommended for use in following systems: Interior and exterior paints, latex paints, anti-corrosive paints, emulsion plasters, adhesives and joint fillers.

Advantages of using TAFIGEL PUR 48:
- thickening independent of pH
- excellent brush handling
- good flow, leveling and gloss
- good spatter resistance
- very good colour acceptance on tinting

The resulting effect of polyurethane thickeners can be affected by other components of the formulation. Type and quantity of binder, co-solvents, coalescing agents, surfactants, wetting agents, pigments and flattening agents are the main partners to form a network. TAFIGEL PUR 48 is specifically developed to thicken polymer dispersions which are difficult to thicken and to minimise effects of other formulation components.

Recommended levels/use:
TAFIGEL PUR 48 can be added undiluted to the grind and before adding the binder. For post-addition, the preparation of a masterbatch is possible with water or a suitable water/co-solvent mixture (e.g. water/Dowanol DPM, 75:25). Ladder studies are recommended to determine optimum levels. Normal dosage ranges from 0.3 - 2 % on total formulation.

Storage/handling:
TAFIGEL PUR 48 is not sensitive to freezing. The product should be stored cool and dry. During storage a creamy layer is formed on the surface. Consequently TAFIGEL PUR 48 has to be stirred properly before use. The minimum shelf life in closed containers is 15 months from the date of manufacture.

Packaging:
Totes holding 1000 kg net, drums holding 150 kg net or kegs holding 25 kg net.