TECHNICAL INFORMATION

Rheology modifier for aqueous systems

Composition: Non-ionic polyurethane, APE-, VOC- and organotin free
Appearance: liquid
Colour: yellowish

Typical Properties:
- Active ingredients: approx. 25%
- Density at 20°C: approx. 1.03 g/cm³
- Solubility in water: dispersible in water, results in a turbid gel
- pH (2% in dist. water): approx. 7

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 61 is designed as an "associative thickener" which builds up and stabilizes viscosity by forming a network between polyurethane, binder molecules and other paint ingredients. TAFIGEL PUR 61 provides strong pseudoplastic rheological profile with excellent shear thinning characteristics. It can be used alone or in combination with other TAFIGEL thickeners, as well as with further thickener technologies. TAFIGEL PUR 61 is designed for use in industrial coatings. It is also recommended for following systems: Interior and exterior paints, latex paints, anti-corrosive paints, emulsion plasters, adhesives and joint fillers.

Advantages of using TAFIGEL PUR 61:
- high sag resistance
- good flow, leveling and gloss
- excellent atomization for spray application
- can be used over a wide pH range

The performance of polyurethane thickeners is affected by many factors including binder type, co-solvents, coalescing agents, surfactants/wetting agents, pigments and flattening agents. The interactions of TAFIGEL PUR 61 with these compounds allow varied possibilities for rheology adjustment.

Recommended levels/use:
TAFIGEL PUR 61 can be added at any time during the manufacturing process. For post addition, the preparation of a masterbatch with a suitable water/co-solvent mixture (e.g., di-propylenglycol-mono-methyl-ether or propylenglycol-n-butyl-ether/water) can be usefull. Ladder studies are recommended to determine optimum levels. Normal dosage ranges from 0.3 - 2% on total formulation.

Storage/handling:
TAFIGEL PUR 61 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 61 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.