

TAFIGEL® PUR 44

TECHNICAL INFORMATION

Rheology modifier for aqueous systems

Composition:	Non-ionic polyurethane in butyl triglycol/water, APE-, VOC- and organotin free	
Appearance:	liquid	
Colour:	white, turbid	
Typical Properties:	Active ingredients:	approx. 40 %
	Density at 20°C:	approx. 1.07 g/cm ³
	Solubility in water:	dispersible in water by mixing, results in turbid solutions
	pH (2% in dist. water):	approx. 6.5

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 44 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 44 can be used alone or in combination with other TAFIGEL thickeners as well as with further thickener technologies. TAFIGEL PUR 44 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 44:

- thickening independent of pH
- excellent brush handling
- good flow, leveling and gloss
- good spatter resistance
- very good colour acceptance on tinting

The thickening effect of polyurethane thickeners can be affected by many factors including binder type, co-solvents, coalescing agents, surfactants/wetting agents, pigments and flattening agents. The interactions of TAFIGEL PUR 44 with these compounds allow varied possibilities for rheology adjustment.

Recommended levels/use: TAFIGEL PUR 44 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 44 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 44 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 155 kg net or kegs holding 30 kg net.