

Technical Information

Optimal particle distribution for Improved surface quality

Zuger Chemie's innovative TPW technology revolutionizes the use of TiO_2 , ensuring maximum efficiency and a flawlessly smooth surface. Unlike traditional formulations with separate fillers, TPW technology prevents uneven particle distribution, eliminating common issues like opacity loss and gloss inconsistencies. The result? Exceptional whiteness, superior opacity, and a perfect balance for semi-gloss and gloss finishes—delivering outstanding performance and aesthetic appeal in every application.

Excellent dispersibility for maximum efficiency

The TPW series sets a new standard in dispersibility for both aqueous and solvent-based systems. Thanks to an advanced post-treatment process, our hybrid pigments are precisely functionalized for rapid, uniform dispersion. This not only maximizes pigment efficiency and reduces processing time but also enhances formulation stability. The result? High-quality coatings with superior optical properties and exceptional homogeneity across various binder systems.

Optimized technology for semi-gloss and gloss applications

Designed for high-performance semi-gloss and gloss applications, the TPW series overcomes the limitations of conventional extenders. While traditional fillers create surface irregularities that reduce specular reflection, TPW's ultrafine, functionalized particles ensure a flawlessly smooth film. Its advanced surface chemistry enhances compatibility with various binders, allowing for ideal pigment alignment during drying—delivering unmatched gloss levels beyond the capabilities of standard TiO_2 -extender blends.

Added value through efficiency and cost-effectiveness

The TPW series blends cutting-edge innovation with smart cost efficiency. Its tailored surface functionalization optimizes titanium dioxide usage, reducing costs while enhancing resource efficiency. Unlike conventional formulations that depend on separate extenders, TPW delivers superior performance with significant savings—giving you a competitive edge in both quality and economics.

Technical Data Sheet

	TPW 714	TPW 716
TiO ₂ content %	≥74.0	≥74.0
Rutile content of TiO ₂ %	≥99.0	≥99.0
Modified Barite and Aluminum Silicate, Phosphorus Components	≤ 20.0	≤ 20.0
Brightness L*	≥95.0	≥96.0
Oil absorption [g/100g]	≤18	≤20
Rel. Humidity (105C°)	≤0.5	≤ 0.5
Post treatment	Al, Zr, P, organic	Al, Zr, P, organic
pH-value	6.5-8.5	6.5-8.5
Dispersibility Hegman Scale	≥6.5	≥6.5