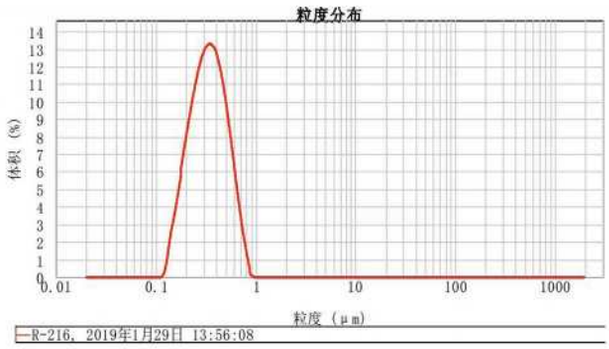
Lake Coatings presents

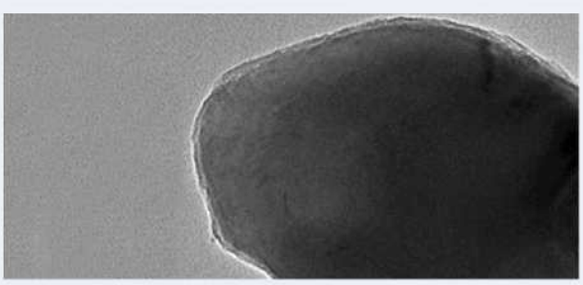
CHTi R-216

Titanium Dioxide Pigment



R-216 is a versatile sulphate titanium dioxide rutile coating grade pigment with silica and alumina coatings. It features balanced properties in both water borne and solvent borne systems. The excellent weathering resistance makes the pigment suitable for broad range of applications.

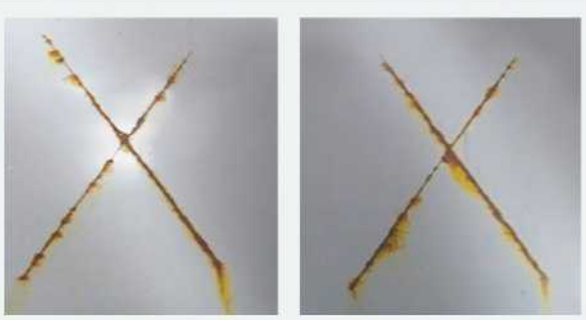
The particle size distribution aims for best opacity in mid range pigment volume concentration (PVC) formulations with a balanced undertone. Absence of coarse tails means the possibility for glossy applications



TEM of a R-216 particle showing excellent coating quality

Typical properties of R-216

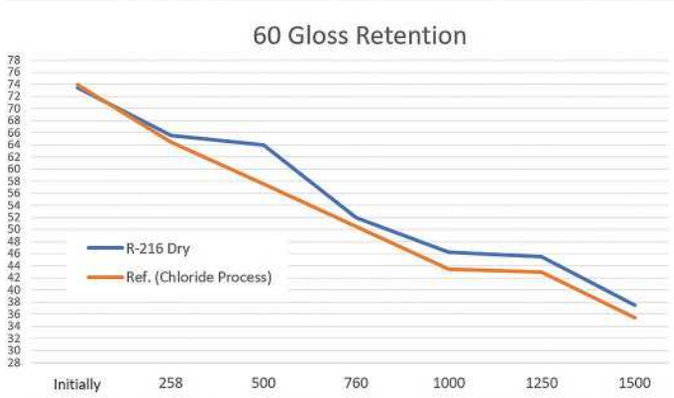
Processing Method	Sulphate
Crystal Form	Rutile
Inorganic Surface Treatment	Silicon & Aluminium Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Color (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%



Salt spray test panels of R-216 (left) and a popular durable chloride grade (right)

Grade	TiO_2 in acid %
R-216	10.04
High durable grade chloride	9.81
High durable grade sulphate	15.33
Medium durable sulphate grade	27.39

Amounts of TiO_2 extracted from pigment by H_2SO_4 solution indicate the integrity of inorganic coatings. The lower the values, the stronger the barrier of inorganic coatings against photo catalytic effect of TiO_2 on polymers, thus higher the expected weathering resistance.



Gloss retention test results of coatings made with R-216 dry powder (left) and with R-216S water slurry (right)

Come and meet CHTi and the Lake Coatings team on

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