ISHIHARA SANGYO KAISHA, LTD.

TIPAQUE® PFC105

PFC105 is a large particle size, rutile type titanium dioxide pigment produced by chloride process and surface-treated with silica, zirconia, alumina and an organic compound. It has excellent paint film properties and extremely higher durability than any other conventional grades, based on our unique technology for surface treatment.

PFC105 is possible to improve durability vastly of paint films and reduce additives for giving durability, because PFC105 has extreme durability as compared with other conventional durability grades. Consequently, the coexistence of quality improvement and cost reduction is possible.

PFC105 is the most suitable when used in architectural exterior paints, heavy-duty paints, and other applications requiring high durability.

＜*Chemical and Physical Characteristics*＞

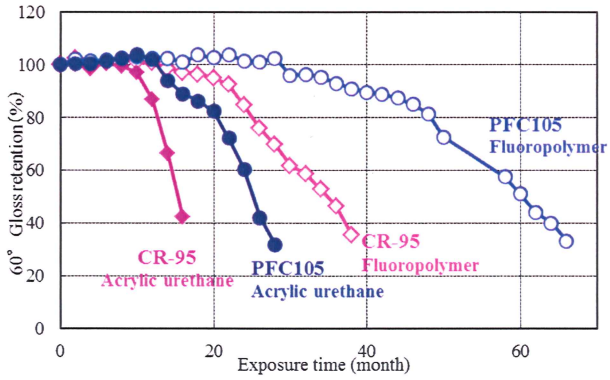
	PFC105	CR-95
Particle Size (μm)	*0.28*	*0.28*
TiO_2 (%), min.	*87*	*90*
Oil Absorption (g/100g)	*22*	*18*
Post-treatment	*Si,Al,Zr,Polyol*	*Si,Al,Polyol*

＜*Paint Film Properties*＞ *(Alkyd-melamine stoving enamel)*

		PFC105	CR-95
Gloss	*(20°-20°)*	*73*	*68*
Color	*L*	*95.4*	*95.9*
	b	*1.2*	*0.8*

＜*Durability; Natural Exposure in Kishu, Japan*＞

- *Solvent based Fluoropolymer paint P/B=0.6/1*
- *Solvent based Acrylic urethane paint P/B=1/1*



《An Example of Paints composition》

TiO_2	: 25%
Resin	: 30%
Dispersant, Solvent, etc.	: 45%
HALS (hindered amine light stabilizer)	: 0.5~1.0%

○ Without HALS addition by use of PFC105
Assuming the price of HALS is $100/kg,
A cost cut of $0.5~$1.0 per 1kg of paint can be realized.

⇒ ***The use of PFC105 enables to reduce the total cost***

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