



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 significantly improve durability of paint films and reduce additives which enhance durability, because PFC105 has extreme durability as compared with other durable grades. Consequently, both quality improvement and cost reduction can be achieved.

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

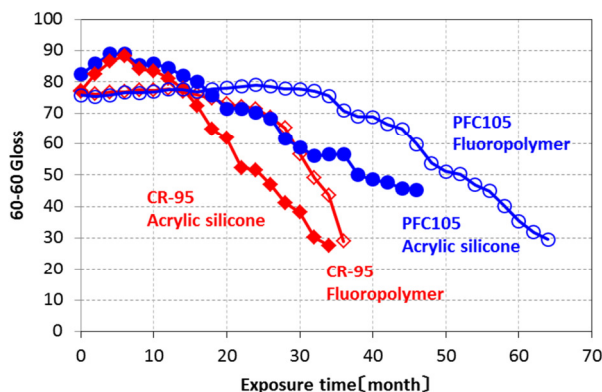
<Paint Film Properties > (Alkyd-melamine stoving enamel)

	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

•Water based Acrylic silicone paint P/B=1/1



《An Example of Paint composition》

- TiO₂ : 25%
- Resin : 30%
- Dispersant, Solvent, etc. : 45%
- HALS (hindered amine light stabilizer) : 0.5~1.0%

○ Without HALS by using PFC105

Assuming the price of HALS is \$100/kg,

A cost cut of \$0.5~\$1.0 per 1kg of paint can be realized.

⇒ **PFC105 enables to reduce the total cost**