

# Fluorine Water & Oil Repellent Coating Agent (FZ Series)

We welcome inquiries!



## «Features»

- Thin, highly effective fluorine coating with excellent water and oil repellence, damp-proofing and anticorrosion!**



The FZ Series offers excellent water and oil repellence by utilizing surface tension and provides a level of damp-proofing that is four times as strong as urethane and silicon coatings. Through a strong combination of fluorine resin and excellent acid and salt resistance, it forms a highly effective coating.
- Application is simple thanks to its rapid drying at room temperature and low surface tension!**

Drying finishes about 10 - 60 seconds after precipitation. No special equipment is needed. Anyone can simply and quickly form a uniform fluorine coating, which reduces overall costs.
- Incombustible, environmentally-friendly fluorine solvents provide a solution to VOC regulations!**

Rather than organic solvents, you can use an incombustible fluorine solvent which is safe for workers, environmentally friendly and provides a solution to VOC regulations. Furthermore, it has excellent resin and rubber resistance, and generates no gases that affect electronics.
- Highly resistant to cracks and pinhole generation, thanks to its flexibility!**

"As the fluorine coating is hard, traceability due to shock or temperature change is a concern." This problem is now solved. Through its excellent elasticity and tensile strength, our product has greatly improved environmental resistance and reliability.

## Water & Oil Repellent Rust Preventive FZ Series

Features	Example Uses	Target Products
Water & Oil Repellent	 Damp proof coating of substrates	Protective coating for various electronic substrates, outdoor products, products used near water, mobile devices, etc.
	Water & oil repellent coating	Damp and rust proofing of various sensors and electronic products. High performance oil barriers and flux preventives.
	Contamination prevention coating	Prevention of dust, oil, fingerprints for plastic molding products, glasses, rubber, paper, and leather products. Prevention of stiction.
Damp proof & Insulation	 Metal rust prevention	Rust proofing of activated metal surface with several $\mu\text{m}$ of fluorine coating. It can be used for all types of metals including iron, galvanized sheet iron, copper patterns, etc. for the prevention of rust.
	Prevention of migration	Prevention of migration for metal parts and electrodes on substrates.
Acid Resistance	Electrolytic resistance coating	Prevention of fluid leakage from lithium batteries and electrolyte condensers.
	Protection against corrosive gas	Protective coating to prevent the emulsification and oxidation of various metals and silver platings that may occur during long-term storage or transportation of products.
Lubrication	Dry lubrication coating	Simple dry lubrication coating with a low friction coefficient

Thank you.



Please contact us if you have any questions about this product or to obtain a sample or a catalog.

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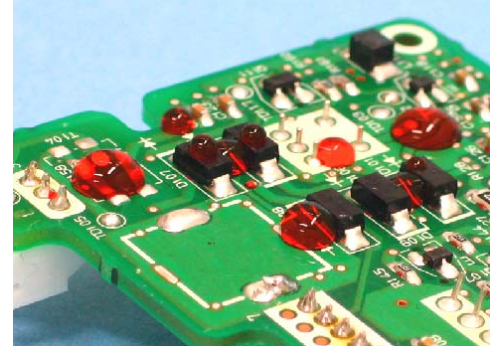
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# Fluorine Coating Agent FZ-610 Series

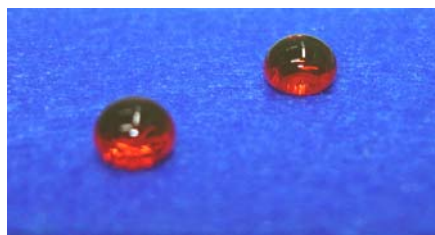
## 【 Features 】

Properties	Characteristics
Appearance	A little turbid, white, transparent liquid
Solid powder	0.1% ~ 10%
Flash point	None
Specific gravity	Approx. 1.5
Solvent	Completely fluorinated fluid



※The above data are those in the catalogue.

## 【 Coating Film Thickness 】



	Solid powder 2.0%	Solid powder 5.0%
Coating Method	Film thickness (μm)	Film thickness (μm)
Deposition	1 ~ 3	4 ~ 6
Brushing	3 ~ 5	7 ~ 9

## 【 Characteristics of Coating film 】

Item	Test Method	FZ-610
Contact angle (°)	Water	118
	n-hexanedecan	78
Tensile strength (MPa)	Complies with JIS K 7127/2/50	0.8
Elasticity (MPa)		10
Elongation (%)		380
Moisture permeation (g/m <sup>2</sup> ·24hr)	JIS Z0208	120(30μm)
Surface resistance (Ω)	JIS C2151	6.2×10 <sup>14</sup>

**High-performance, high quality !**

Our products have been successfully applied to many businesses in a wide range of industries!



New applications are continuously being developed !

**【Water & Oil Repellent】** A low energy surface is formed to strongly repell water and oil.



●Not applied : pure water



**Contact angle: water, 118°**

●Applied (coating formed): pure water



●Not applied: n-hexanedecan



**Contact angle: oil, 78°**

●Applied (coating formed): n-hexanedecan

**【Acid resistance】** Protects against acid.

●Copper plate (coating formed)

No coating    Coating

