

# CORROSION RESISTANT OPTIONS FOR ROSEMOUNT LEVEL SWITCHES

Explore the multiple coatings available for liquid level switches

Emerson's Rosemount™ 2120, 2130 and 2140 Vibrating Forks offer a safe, reliable and cost-effective solution in most liquid applications such as high-low level monitoring, pump control, critical alarms and overflow prevention.

## Advantages of Using Rosemount Level Switches

- **Versatility:** Maximize efficiency and ensure safety in a wide range of applications, from basic processes to demanding conditions and safety-sensitive environments.
- **Reliability:** Guarantee optimal performance in your operations with exceptional accuracy and easy-to-use functionality.
- **Customization:** Ensure long-lasting performance in your specific applications thanks to the four available options that provide superior corrosion resistance.

## Coating Options:

- 1 PFA Ruby Red (CorrosionShield)**  
Offers superior resistance to abrasion, wear, and highly corrosive chemicals, excelling in high temperatures up to 260°C (500°F).
- 2 PFA Ruby Red (Conductive)**  
Combines PFA Ruby Red's chemical resistance with anti-static capabilities, making it ideal for handling flammable gases, powders, and fuel systems.
- 3 ECTFE (Conductive)**  
Provides excellent chemical resistance, making it suitable for use in highly corrosive environments. This coating is particularly effective in applications involving aggressive chemicals or solvents.
- 4 ALLOY C-276**  
Designed for extreme conditions, offering outstanding resistance to both corrosion and high temperatures. This option is ideal for applications in the most demanding industrial settings.



Rosemount 2120 and Rosemount 2140 Level Switch Vibrating Forks with coatings



Did you know that common PFA coatings are susceptible to process fluid penetration?

### CorrosionShield

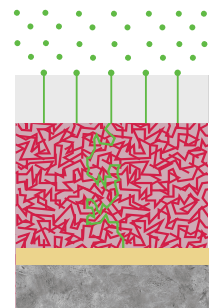
Process Fluid

Pure PFA Coating

(PFA+Additive)  
Resistant  
Additive  
Permeation

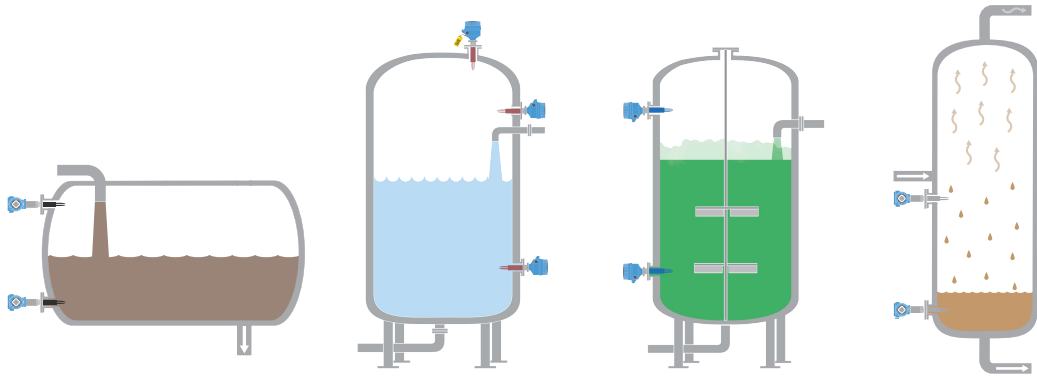
Base

Diaphragm



Rosemount CorrosionShield Coating technology provides improved permeability resistance compared to common PFA coatings, thus enhancing corrosion resistance and extending the life of the Vibrating level switch.

# COATING OPTIONS FOR ROSEMOUNT LEVEL SWITCHES



	PFA Ruby Red (Conductive)	PFA Ruby Red (CorrosionShield)	ECTFE (Conductive)	Alloy-C
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**Temperature Range**

-40 to 260°C  
(-40 to 500°F)

-40°C to 260°C  
(-40 to 500°F)

-40°C to 150°C  
(-40 to 500°F)

-40°C to 260°C  
(-40 to 302°F)

**Thickness**

450-700 microns

450-700 microns

450-700 microns

N / A

**Approvals**

- All Hazardous locations approvals

- For use in non-hazardous locations FDA approved

- All Hazardous locations approvals

- All Hazardous locations approvals

**Preferable Applications**

- Highly aggressive corrosive environments, static build-up may occur

- Highly aggressive corrosive environment

- Oxidative and alcohol-rich environments

- Extremely corrosive environments

For more information, visit [Emerson.com/Liquid-Level-Switches](https://www.emerson.com/Liquid-Level-Switches)

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00807-0300-4030 Rev AA