

# **Furuto** 古藤工業株式会社

PREMIUM GRADE (100% Air Tight & Water Tight)

Origin: Made in Japan

## Self-Fusing series **ANTI-CORROSION TAPE**



Plant: Fukushima, Japan



A Leading Adhesive Tape Maker in Japan Since 1940

URL: <http://furuto.com> email: [service@furuto.com](mailto:service@furuto.com) ; [furutotw@gmail.com](mailto:furutotw@gmail.com)

Manufacturer : **FURUTO INDUSTRIAL CO., LTD.** (Japan)

International Customer Service : **Furuto (HK) Ltd. / Furuto International Corp.**

## FURUTO (Premium Grade) Self-Fusing series ANTI-CORROSION TAPE

### \* Primer \*

CODE	COLOR	FUNCTION	BACKING MATERIAL	TEMP. RESISTANCE	THICKNESS mm	Packing	
#F0	Black	Primer	Non	100°C	Non	40g / 3kgs / 14kgs	

- To improved Anchor-Force between the Object and Anti-Corrosion Tape.
- No need to use for new pipe and facility, unless it's the underground object or the construction temperature was under 5°C. Repairing the old object must be clean the rust and oil before use.

### \* (Self Fusing) Anti-Corrosion Sealing Tape \*

Available Width: 25~950mm

CODE	COLOR	FUNCTION	BACKING MATERIAL	TEMP. RESISTANCE	THICKNESS mm	WIDTH mm	LENGTH M
#F1B	White	Sealing	Non	100°C	2.0	≤ 950	2.8M / 10

- As a Filler to Molding or Sealing for the uneven surface or irregular sections, such like Weld End, Flange, Valve, Clamp, Pipe Support, Tank Bottom, Screw & Nut of Steel Construction....etc.

### \* (Self Fusing) Anti-Corrosion Wrapping Tape \*

Available Width: 25~950mm

CODE	COLOR	FUNCTION	BACKING MATERIAL	TEMP. RESISTANCE	THICKNESS mm	WIDTH mm	LENGTH M
#F2A	White	Wrapping	Non	100°C	2.0 / 1.0	≤ 950	5M/10M
#F2B	Yellow	Wrapping	Non	100°C	1.0	≤ 950	5M/10M
#F2B Is Flame Retardant type (meet JIS-A1322A, Grade 2)							

- As an under-wrapping material for the uneven surface or irregular sections of Weld End, Flange, Valve, Clamp, Pipe Support, Tank Bottom, Screw of Steel Construction....etc.

### \* (Self Fusing) Anti-Corrosion Surface Protection Tape \*

Available Width: 25~950mm

CODE	COLOR	FUNCTION	BACKING MATERIAL	TEMP. RESISTANCE	THICKNESS mm	WIDTH mm	LENGTH M
#F3	White	Surface Protection	Cable Grade PE	70°C	0.4	≤ 950	10M / 20M
#F5	White	Surface Protection	Aluminum Foil	120°C	0.5	≤ 950	20M
#F6	White	Surface Protection	Vulcanized Rubber	100°C	1.0	≤ 950	8M

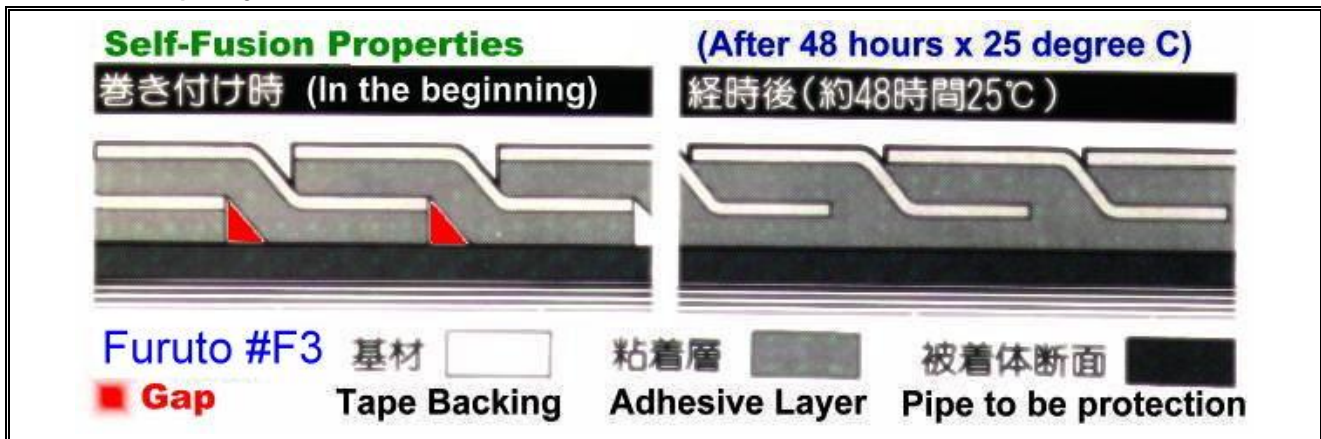
- As an Outer Wrap Surface Protection Tape for both ground & underground pipe and facility.
- The General Straight Pipe is only need to use #F3. Excellent Resistance to UV, Chemical, Salt..etc
- #F6 is a special designed for Impact Resistance or Anti-Friction if required.

### Salient Feature of FURUTO Self-Fusing series ANTI-CORROSION TAPE

<p>100% Air Tight &amp; Water Tight</p>	<ul style="list-style-type: none"> <li>▪ Excellent Self-Fusion (Self-Amalgamates) properties could be let the overlap gap of adhesive became to Self-Fusion within 48 hours.</li> <li>▪ Excellent Softness can easy apply to any of uneven surface or irregular sections.</li> <li>▪ Excellent IMMERSION RESISTANCE to stop the Air &amp; Water immersion for long period without failure, as a final solution for the Anti-Corrosion application.</li> </ul>
<p>Prevent corrosion deterioration, as a Semi-Permanent Anti-Corrosion solution</p>	<ul style="list-style-type: none"> <li>▪ Did not add any of Asphalt, Bitumen or Tar oil which were rich content of Sulfide (it's on the contrary to accelerate the corrosion for the steel object).</li> <li>▪ Excellent Softness, would not be hardening to avoid the Air &amp; Water immersion which caused by the cracking of anti-corrosion material after aging, heating or cooling, and vibration or earth quake.</li> <li>▪ FURUTO's Self-Fusion (Self-Amalgamates) Anti-Corrosion Tape is a special designed as a long-terms protection solution (it's a Semi-Permanent Anti-Corrosion materials).</li> </ul>
<p>Suitable for any of harsh environment and various industrial use</p>	<ul style="list-style-type: none"> <li>▪ <b>Special designed for the Petrochemical Industrial's facility</b> (above or underground) <b>in coastal region (= serious corrosion environment).</b></li> <li>▪ Premium grade formula of Furuto Butyl Rubber Adhesive is recognized very good chemical and thermal stability, insoluble in ethanol and acetone, the ability of resistant to acid, alkali, animal and vegetable oils, oxygen and ozone. Excellent weather resistance, temperature resistance, insulation properties, suitable for various industrial.</li> <li>▪ FURUTO #F3. backing material is a superior Cable Grade LDPE film, -provide an excellent outdoor UV, Chemical and Salt resistance to protection the object in coastal region for long period without failure (as a final solution for the Anti-Corrosion application).</li> </ul>
<p>Easy to use, cold apply , as an Environmental protection material</p>	<ul style="list-style-type: none"> <li>▪ Excellent Self-Fusion (Self-Amalgamates) Adhesive <u>unlike other 『 Immediate Adhesion type 』 (which is contents of Hazardous Materials, such like Volatile Solvent, Bitumen, Tar Oil or Plasticizer to let the Adhesive been STICKY).</u></li> <li>▪ Cold apply, easy to use, without bad smell, the special Self-Fusion Adhesive is amalgamates to the object only (not in worker's hand), to protect environment and workers' health.</li> </ul>

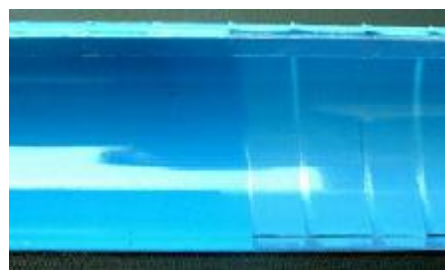
## Self-Fusion (Self-Amalgamates) Properties of FURUTO series

test sample by Furuto's #F3



<p>LEFT:</p> <p>The Self-Fusion (Self-Amalgamating) Tape apply to the pipe in the beginning, you can see the "GAP" (red color area) between each layers of Tape.</p>	<p>RIGHT:</p> <p>After applied 48hrs (25 degree C), the "GAP" between each of layer of Tape has been Self-Fusion by itself, to provide the excellent Insulating and Anti-Corrosion properties (100% Air Tight &amp; Water Tight).</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Below: Self-Fusion Properties (demo on transparent plastic pipe)

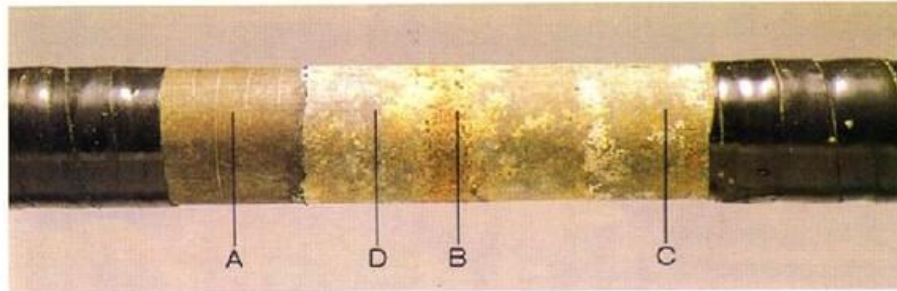


<p>LEFT: Outside appearance of <b>Furuto #F3</b> Self Fusing Anti-Corrosion Surface Protection Tape.</p> <p>RIGHT: Outside appearance of <b>other</b> Pipe Wrapping Tape. [Adhesive: Solvent Rubber or Asphalt, Bitumen...etc.]</p>	<p>LEFT: Inside appearance of <b>Furuto #F3</b> Self Fusing Anti-Corrosion Surface Protection Tape. Applied within 48hrs (25 degree C), The "GAP" between each layer of Tape has been Self-Fusion by itself to provide the excellent Insulating and Anti-Corrosion properties (100% Air Tight &amp; Water Tight). The user will be save a lot of expanse for the pipe maintenance with long period.</p> <p>RIGHT: Inside appearance of <b>other</b> Pipe Wrapping Tape. [Adhesive: Solvent Rubber or Asphalt, Bitumen...etc.] Applied within 48hrs (25 degree C), <u>The "GAP" between each of layer STILL and forever EXIST. the Corrosion will be starting from the GAP area day by day.</u> The user have to spend a lot of expanse for the pipe repair. and maintenance within half ~ 2 years.</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Anti-Corrosion Test - for FURUTO Self-Fusing series ANTI-CORROSION TAPE

### (1) Underground Aging Test for 10 years

防食効果



Above #A:  
Protected by Furuto #F3 Self Fusing Anti-Corrosion Surface Protection Tape.  
after 10 years, no any corrosion was found.

Above #B, C, D, Protected by other Pipe Wrapping Tape had serious Corrosion.  
#B (=10 years), C (=9 years), D (=4 years),

### (2) Outdoor Aging Test for 3 years : (below photo, test sample by Furuto's #F0, F1B, F2 & F3)

Test Condition: serious corrosion environment (facilities of Oil Refinery in coastal region)

Test Result: (No any corrosion) = EXCELLENT Water & Air Immersion Resistance, and UV Resistance. (both Weld End and Pipe's surface are still showing Metallic Luster, which same as the original status before wrapping the Furuto Self-Fusion Anti-Corrosion series products).



## Accelerate Aging Test - for FURUTO Self-Fusing series ANTI-CORROSION TAPE

(3) Under Sea Aging Test for 6 months : (below photo, test sample by Furuto's # F3)

Test Condition: serious corrosion environment (facilities of Oil Refinery in coastal region)

10 meters under the sea for 6 month (under high seawater pressure to test the Accelerate Aging)

Test Result: (No any corrosion) = EXCELLENT Water & Air Immersion Resistance.



appearance of demo sample before check -  
10 meters under the sea for 6 month  
Tape's surface covered plankton and sea shells.



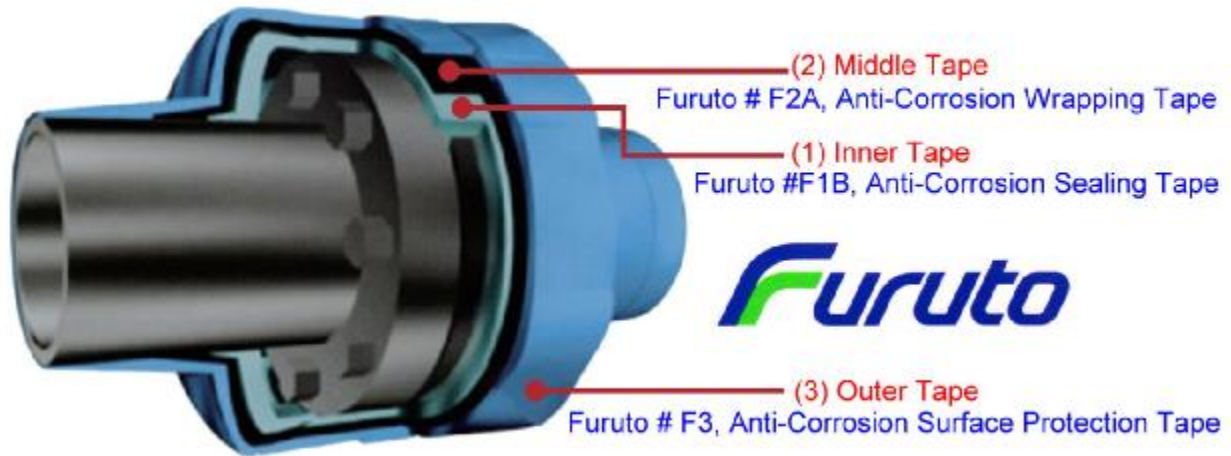
Furuto #F3 couldn't peel-off from the pipe due to its Self-Fusion Adhesive Layer was very tight covered the Pipe surface (became a part of Pipe). (= 100% Air Tight & Water Tight)

## FURUTO (Premium Grade) Self-Fusing series ANTI-CORROSION TAPE

Furuto #0 Primer	Furuto #1B	Furuto #2A	Furuto #3
			

## Engineering Method –(1) for FURUTO Self-Fusing series ANTI-CORROSION TAPE

Anti-Corrosion for Flange, Valve & Pipe.....



(1)  
Repairing the old object must be clean the rust and oil before use the #F0 Primer.  
New pipe is no need the primer.

(2)  
Apply Furuto #F0 PRIMER (brush or spray) as an under coating for the object.

(3)  
Use Furuto #F1B, Sealing Tape to fill the uneven surface or irregular section of Flange.

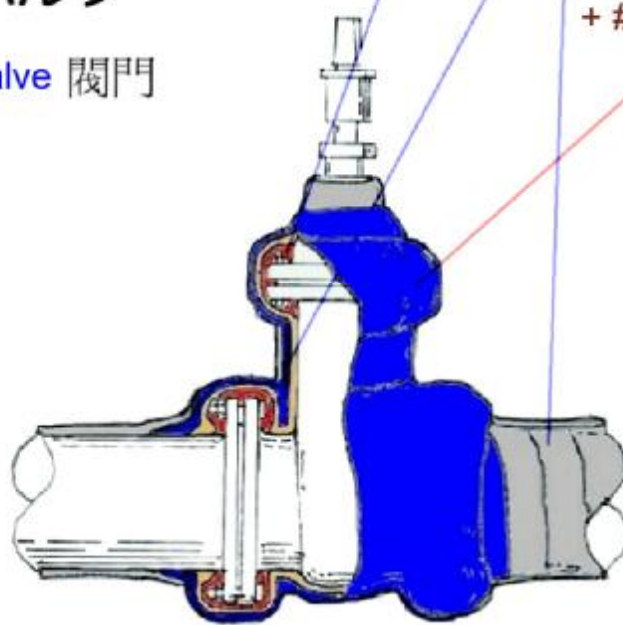


(4)  
Use Furuto # F2A, Wrapping Tape to be around the irregular surface of Flange.

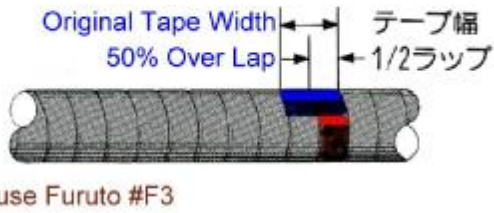
(5)  
Use Furuto # F3, Surface Protection Tape to be around the irregular surface of Flange.

(6)  
Use Furuto # F3, to wrapped again and extend to the both side of pipe (10~20cm), and avoid the wrinkles.

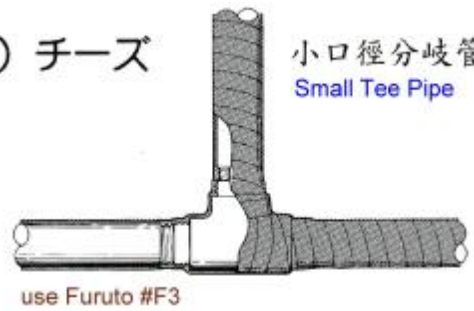
バルブ use Furuto #F1 + #F2 + #F3 + #F3 sheet  
 Valve 閥門



1) 直管部 **Straight Pipe**



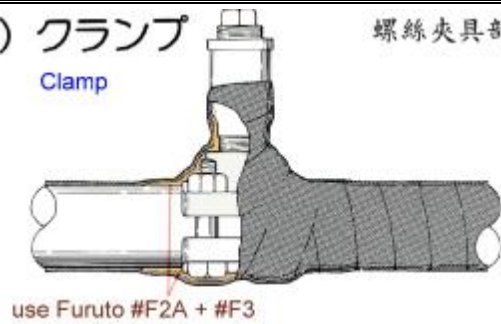
2) チーズ **Small Tee Pipe**



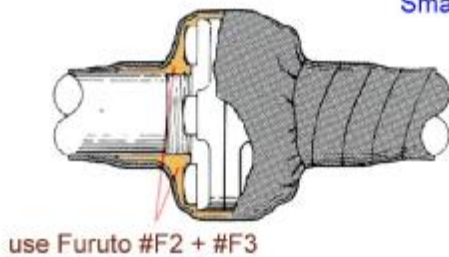
3) エルボ **Small Quarter Bend**



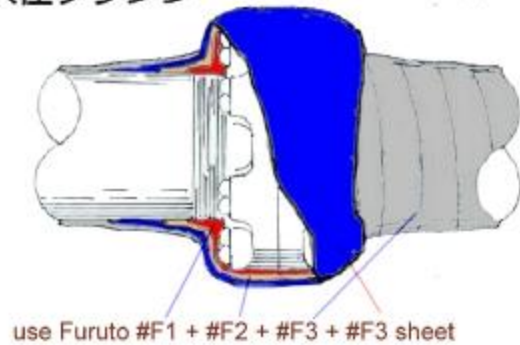
4) クランプ **Clamp** 螺絲夾具部位



5) 小径フランジ **Small Flange** 小口径法蘭









大径フランジ **Big Flange** 大口径法蘭





**End Application - for FURUTO Self-Fusing series ANTI-CORROSION TAPE**

Water Industry (Japan)	Power Industry (Japan)	Chemical Industry (Japan)
		
		

Oil Refinery (Taiwan)	Power Industry (Taiwan)	Steel Construction (Taiwan)
		
		

Manufacturer : [FURUTO INDUSTRIAL CO., LTD. \(Japan\)](http://www.furuto.com)

International Customer Service : [Furuto \(HK\) Ltd. / Furuto International Corp.](http://www.furuto.com)

URL: <http://www.furuto.com> email: [service@furuto.com](mailto:service@furuto.com) ; [furutotw@gmail.com](mailto:furutotw@gmail.com)



**古藤工業株式会社**

