

### Ready for any emergency in this one!



#### **SHIN SHiP+AiD (Standard model)**

ALL IN ONE PACKAGE !! Anyone can easily and quickly repair ships !

• Repair of various piping leaks (water, sea water, air & oil)

- · Repair of aux. steam piping leaks
- Repair of exh. gas piping leaks
- Repair of hydraulic piping leaks
- Repetr of pump cesting

- As a reinforcing material to a thinned portion
- Alternative repair at areas that can not be welded
- Repair of expansion joint creak
- Repair piping under pressure

**SHiP+AiD** supplies you the **SAFETY** & **RELIEF**.





Take the same amount of base resin and hardener.



% We can arrange a heat gun, if you need it.

Mix and leave for 10 minutes

HOUSE

PIPING



Apply after warming up the repair area and turn to gold after 20 min heating.





Usage is versatile

Watch the detailed usage of this product with the video.

Curing is completed after return to

natural temperature naturally.



https://youtu.be/gCjYhJVlges



DUAL ADHESIVE SYSTEM **Instant repair of all materials !!** A new sense of repair agent that can be repaired to holes, cracks, chips, breakage by using liquid and powder.

Adhesive

Even liquid alone can be used as an adhesive.





Sprinkle powder on top of it

LIQUID one or two drops of liquid to the repair spot again



WATER LINE

When you want to increase strength, please repeat the above work.

\*After hardening, rasping, holes and screw processing, painting are also possible.

Metal, PVC, Plastic, Rubber, Wood, Pottery, Glass, FRP, Leather, and any materials



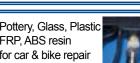












$\bigcirc$ = Conformity ×= Non-conformity		
Ethanol	0	
Acetone	×	
Nitrite	$\bigcirc$ (× Concentrated)	
Gasoline	0	
Benzin	0	
Toluole	0	
Xylole	0	
Hydrochloric acid	$\bigcirc$ (× Concentrated)	
Sulfric acid	$\bigcirc$ (× Concentrated)	
Phosphoric acid	$\bigcirc$ (× Concentrated)	
Sodium hydroxide	$\bigcirc$ (× Concentrated)	

Watch the detailed usage of this product



https://youtu.be/H3iUW07chhl

Epoxy Putty **RECTOR SEAL EXP: 3 YEARS FROM** MANUFACTURING DATE **All-purpose putty** темр. •40~200℃ **Tough & Durable !** DRINKING WATER LINE Harden like a metal in 15~20min after kneading. Just cut and knead it Easy to use putty type everywhere Pinhole Elbow Joint Joint 2 layers ECTORSEAL If it attached like wrapping around piping, the pressure resistance will increase. This product has layers of two components, combining by kneading and hardening. C 108-5 E DOX The use is diverse, such as repairing holes and cracks, reforming the surface. EP-200 (24pcs) EP-400 (12pcs) EP-400 EP-200 EP-200W Piping (Stainless, Copper, Steel, PVC) (Approval of Food Sanitation Act No.370/20) ◆ Air conditioner (Duct, Unit, Fan) **RECTOR SEAL**  Electrical machinery (Housing motor, Shaft) Chemical resistance Industry (Equipment, Pump casing) EP-400 EP-200 EP-200W =Conformity ×=Non-conformity Car (Oil tank, Engine block, Fan, Muffler, Oil pan, Radiator) Contents 112g 56g 56g 10%Acetic acid Color Gray Grav White Shipping (Hull, Piping, Pump casing) 2%Nitric acid Material Epoxy resin ◆ Agriculture (Tools, Machinery) 10%Sulfric acid Shore D85 Hardness DIY (Tile, Wall, Piping, Cabinet, Door) 10%Hvdracid Temperature -40~200℃ Acetone Watch the detailed Pressure 10kg/cm<sup>2</sup> Xylole usage of this product 420kg/cm<sup>2</sup> Tensile strength with the video. Gasoline 1.260kg/cm<sup>2</sup> Compressive strength Methanol 6×10⁵PSI Elastic coefficient

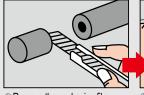


https://voutu.be/8Aar0v1s8aM



4560361000010 4560361000034 4560361000041

※ First of all, please remove dirt, paint, dust, rust, oil etc. on the adhesion surface.



49kg/cm<sup>4</sup>

5×10<sup>15</sup>Ω⋅cm

400Volts/mil 0.125in

Shear strength

JAN code

Insulation properties

Volume resistance

 Remove the packaging film and cut it in the required amout.



against the adhesive / filling spot.

Ethanol

10%Hvdrochloric acid

Caustic soda

\* If you use a wet cloth or wet spatula, it will be beautiful finished.

- \* When the temperature is low, the time to compelete hardening becames longer. Please use at temperature above 5°C
- Please be careful as excessive kneading and redoing of molding after adhesion will cause poor adhesion and poor hardening.
- Recommend to conbine with Quick Tape and Arlon Tape for piping repair. \*
- Cover Rector Seal by Quick Tape for additional strength.
   Cover Arlon Tape by Rector Seal for protection.

③ Embed and mold so as to press ④ Harden and adhere in 15~20mins. It can be done tapping, bufffing, painting and etc. after completed hardening (1 hour)

EXP: 2 YEARS FROM MANUFACTURING DATE

#### Self fusing silicon tape ARLON TAPE GRAY

lippery in water

It's available for Air, Water, Sea water, and Aux. steam.

темр. −50~200°С



Just wind while pulling strongly |

### You can stop leakage under pressrue !

SRG-2

Chemical resistance

10%Acetic acid

2%Nitric acid 10%Sulfric acid

10%Hydracid

Acetone

Gasoline

Methanol

Ammonia

Antifreeze

Ethanol

**Xvlole** 

 $\supset$  = Conformity  $\times$  = Non-conformity

X

×

×

×

0

 $\triangle$ 

SRG-38 Wide type

SRG-11

SRG-5

Width 25mm / 38mm Please use according to the pipe diameter.

#### **ARLON TAPE GRAY**

	Product size	Applicable dia.	Qty	JAN code
SRG-2	W 25 x L 2000mm	Under 50A	24	4560361000331
SRG-5	W 25 x L 5000mm	Under 50A	12	4560361000348
SRG-11	W 25 x L 11000mm	Under 50A	6	4560361000355
SRG-38	W 38 x L 6000mm	Under 100A	8	4560361000362

Material	Silicone rubber
Pressure	1.0MPa
Tensile strength	8.0MPa
Temperature	-50°C ~ 200°C
Confficient of extension	600%

Approval of Food Sanitation Act No.370/201 Approval of JIS K6353(Rubber for water) US military standard compliant goods (MIL-146852C) Watch the detailed usage of this product with the video.



https://youtu.be/MKw.lscGoarl

When pulling strongly while winding it, the tapes will self-fuse, and they will adhere to broken parts such as piping and hose

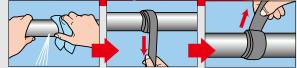
Arlon Tape Gray repair example

leakage, bleeding, pinholes and gaps. Repeat to wind the tape until stop.

Repeat to wind the tape drift stop.

Since it does not adhere to piping, any material can be repaired.

#### Example of leakage repair of pinhole

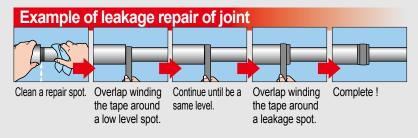


Clean a repair spot.

Cut the tape to 20~30cm and overlap winding it while pulling strongly.

Complete if leakage stops. If it is still leaking, continue to overlap winding the tape until the leakage stops.

C



- Press the end of the tape against it while pulling finally.
- Since it done not adhere to piping, the winded tapa can be easily removed with scissors.
- Recommend to combine it with Quick Tape or Rector Seal for protection after completion.
- It can be used in either direction on both sides.

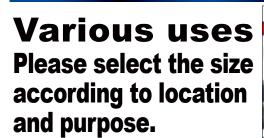
Only wet and wind **RECTOR HIGH TAPE** 

#### Harden in 30mins

### For pipe leakage and breakage

### It solidifies like a metal and can be repaired permanently.

темр. −15~210℃



DRINKING

WATER LINE 0K



- Repair for water, air, aux. steam and oil piping in factories & plants.
- Repair for elevated tank, septic tank, toilet bowl and other tank.
- Repair for plastic molding machine, construction machine and oil feed pipe.
- Repair for ship equipments during long voyage.

Approval of Food Sanitation Act No.370/595 Approval of EPA601 / Approval of AS4020

#### Easy work just to wet & wind

Easy to handle, anyone can work quickly and easily. It is available for plastic, steel, lead, copper, stainless, concrete, ceramic, glass, PVC and etc. Ideal for piping repair of all materials.

#### 

\* Close the root valve of the piping and hose before repair, and relieve pressure. Remove oil, rust and other dirt from the repair spot. Please be sure to wear the supplied gloves before work



④ Bubbles come up from the tape after a while, keep making the tape fit in piping due to loose the tape during bubbling (about 10~15mins). It hardens in 30~40mins at outside temperature 21°C. Wipe by alcohol after completion if required surface finish. It can be sanded and painted also.

- Cover Rector Seal by High Tape for additional strength.
- Cover Arlon Tape by High Tape for protection.

5





#### **RECTOR HIGH TAPE**

**Contents** • Glass filber tape (Aluminum packed) • Rubber gloves • Pat

	-				
	RH-1	RH-2	RH-3	RH-4	RH-5
Size(mm)	W25xL750	W50xL750	W50xL1500	W75xL2700	W100xL4500
Applicable dia.	Under 15A	Under 20A	Under 40A	Under 80A	Under 150A
Material	Glass fiber cloth tape				
Num of turns	6~8 windings				
Hardness	Shore D53				
Temperature	-15~210°C				
Pressure	10kg/cm <sup>2</sup>				
JAN code	4560361000058	4560361000065	4560361000072	4560361000089	4560361000096

Usage : Repair and reinforce pipes and hoses for metals, plastics, PVC, FRP, ceramics, glass, rubber.

Particularly suitable for piping using chemicals and oil.



EXP: 2 YEARS FROM

MANUFACTURING DATE

Watch the detailed usage of this product with the video.



https://voutu.be/5UQuvOAifuE

#### Chemical resistance =Conformity ×=Non-conformity

20%Acetic acid	0
20%Nitric acid	0
75%Sulfric acid	0
20%Hydracid	0
Methyl alcohol	0
10%Ammonia	0
Gasoline	0
Kerosene	0
Toluene	0
37%Hydrochloric acid	0
Corn oil	0



**Strong Bond** 

RECTOR HIGH



#### Only wet and wind **RECTOR QUICK TAPE** Harden in 3mins

DRINKING

WATER LINE,

Wet and Wind

### **Significant shortening of construction** time for fast fixation!

Strong Bond

# 

#### It can be repaired permanently.

Easy work that just wets and winds, repair and reinforcement of piping is completed at once. Fixed in just 3 mins, hardened in 20 mins. Greatly shortening your working time !

#### It can be used for a wide range of materials such as any metal, ceramic PVC and etc.

Approval of Food Sanitation Act No.370/595 Approval of EPA601 / Approval of AS4020

#### **RECTOR QUICK TAPE**

Contents ● Glass filber tape (Aluminum packed) ● Rubber gloves ● Pat

QT-1	QT-2	QT-3
		Q1-3
W25xL600	W50xL1200	W75xL2400
Under 25A	Under 50A	Under 80A
Glass fiber cloth tape		
6~8 windings		
Shore D60		
-15~200°C		
12.6kg/cm <sup>2</sup> (ASTM D1599)		
4560361000157	4560361000164	4560361000171
	Under 25A Glass fiber clot 6~8 windings Shore D60 -15~200°C 12.6kg/cm <sup>2</sup> (AS	Under 25A Under 50A Glass fiber cloth tape 6~8 windings Shore D60 -15~200°C

Usage : Repair and reinforce pipes and hoses for metals, plastics, PVC, FRF ceramics, glass, rubber

Particularly suitable for piping using chemicals and oil.

-	rabber gioreo	- i ui
<ul> <li>Chemical resistance</li> <li>Conformity ×=Non-conformity</li> </ul>		
	20%Acetic acid	0
	20%Nitric acid	0
	75%Sulfric acid	0
	20%Hydracid	0
	Methyl alcohol	0
	10%Ammonia	0
	Gasoline	0
,	Kerosene	0
	Toluene	0
	37%Hydrochloric acid	0
	Corn oil	0

0R 0.7

QT-1 (12pcs) QT-2 (8pcs) QT-3 (6pcs)

Watch the detailed usage of this product with the video.



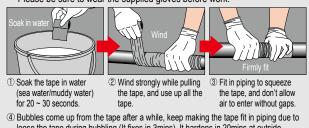
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#### Easy work just to wet & wind

Easy to handle, anyone can work quickly and easily. It is available for plastic, steel, lead, copper, stainless, concrete, ceramic, glass, PVC and etc. Ideal for piping repair of all materials.

#### (How to use) \* Please repair under non-pressure.

\* Close the root valve of the piping and hose before repair, and relieve pressure. Remove oil, rust and other dirt from the repair spot. Please be sure to wear the supplied gloves before work



loose the tape during bubbling (It fixes in 3mins). It hardens in 20mins at outside temperature 21°C. Wipe by alcohol after completion if required surface finish. It can be sanded and painted also.

- Cover Rector Seal by Quick Tape for additional strength.
- Cover Arlon Tape by Quick Tape for protection.

UV curing repair material **RECTOR SUN SHEET** 



**EXP: 1 YEAR FROM** MANUFACTURING DATE

**FRP Sheet** 

## Just cut & paste it to the necessary size at the repair spot !

Easy to use with a sense of sticker for various repair. 15 mins hardening with sunlight (UV ray)











#### **RECTOR SUN SHEET UV600**

Material	Glass fibe UV curab	er le epoxy acrylate resin
Size(mm)	150×220	) Thickness 1.5mm
Temperature	-20~10	วาว
Tensile strength	115MPa	Elastic modulus 8.8GPa
Bending strength	235MPa	Elastic modulus 7.8GPa
Breaking extension	1.5%	Impact strength 45KJ/m <sup>2</sup>
JAN code	4560361000140	

Usage : Repair and reinforce damaged and corroded parts such as steel plate, steel piping, FRP, glass, ceramic, PVC, and hardened vinyl chloride. ※ It may peel off for deformable materials



#### **Other Uses**

- Piping repair
- Sewer pipe welding reinforcement
- Steel, copper, stainless
- Air conditioning equipment
- Emergency repair of ships
- Repair of outdoor equipment (FRP boat / PWC / Fishing rod)

#### \*Usage prohibited

- · Polvethylene
- Polypropylene
- · Polycarbonate

Watch the detailed usage of this product with the video.



https://voutu.be/muaX3d3KfBM

# Before

Mold from the back of the bumper with Sun Sheet.

2

 Finish the surface with resin. \* It's a repair example using Uni Solar in combination.



the sheet



the sheet surface.

according to the pasting area \* Remove dust, mud and oil in repair spots

(How to use)

Smooth the repair surface with sandpaper.

and remove oil with a degreasing agent.

% If water is out, stop water and dry the surface before using

it on the repair spot. ※ Please be careful not to put in the air when pasting. (Remove the air with roller or hands.)

% The surface temperature of the repair spot should be less than 80°C. \* Avoid outdoor work in rainy weather

the sheet.



UV curing repair material UNI SOLAR Gel type

### For reparing cracks & holes !

Hardening to irradiate sunlight or UV light. Special gel quickly repair cracks & gaps. It's suitable for emergency repair of tanks & piping.

職光3分で向

**ニソーラー・ソフト** 紫外線硬化樹脂

チレン・ポリプロピレン 兪属に強力接着!



Uni Solar Soft for soft materials such as PE tanks.

**UNI SOLAR SOFT** 

#### UNI SOLAR

	Soft	Hard
Material	UV curable epoxy acrylate resin	
Tensile coefficient	4.6×10⁵psi	
Extension rate	5-6%	
Bending strength	1,540kg/cm <sup>2</sup>	
Bending coefficient	4.9×10⁵psi	
Compressive strength	2,240kg/cm <sup>2</sup>	
Deformation temp.	105°C	
Hardness	Barcol 35	
Permittivity	3.38	
Shear strength	304 stainless 800 psi	
IAN oodo	4560361000199	4560261000105

JAN code 4560361000188 4560361000195 Usage : Repair and reinforce damaged and corroded parts such as steel plate, steel piping, FRP, glass, ceramic, PVC, and hardened vinyl chloride.

% It may peel off for deformable materials.

#### < How to use>

- ① Dry the surface, remove the dirt and the oil with a degreasing agent, and roughen the surface with coarse sandpaper to improve adhesion.
- 2 Squeeze Uni Solar in the shade, and apply to the repair spot.
- ③ Irradiate with UV light or sunlight for about 3 mins. If you paste a transparent film on the surface of Uni Solar, then block the air and cure it, it will be a clear and beautiful finish.
- When Uni Solar Hard is felt hard, adjust the hardness by adding a small amount of acetone.
- Since UV is difficult to reach deeply, the one with 1~2 mm of overcoating is better in the curing condition.
- If the surface does not dry even when irradiated with UV for more than 10 mins, the surface will dry out by wiping with a industrial alcohol.





リエチレン・ポリプロピレ

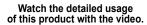
金属に強力接着!

100g





Uni Solar Hard for repair of pressure part such as pipings.



**GEL TYPE** 

100g



PRESS. TEST

### UV-LED Flashlight that will cure Sun Sheet and Uni Solar quickly after repair.

#### Work in indoors or place whrere ultraviolet does not hit



365nm UV light is cured SUN SHEET & UNI SOLAR quickly. You can use it anywhere for portable flashlight type.

#### UV-LED FLASHLIGHT

-	
Battery	AAA x 3pcs
Voltage	5W
Wavelength	365nm

UV curing type leakage repair material LEAKAID



**EXP: 2 YEARS FROM** MANUFACTURING DATE

#### UV curing type leakage repair material



#### MAIN FEATURES

- ① Lipophilic before hardening, oil resistant after curing !
- 2 Harden in 1 second with UV ray, slow leakage can be cured even it's leaking
- ③ No drop on vertical surface, gap can be filled
- **④** Removable after hardening

#### темр. •40~150°С Effective repair material with " Adhesive on oil surface" and "Quick hardening" functions !

Revolutionary repair material which can be used for OIL, WATER, and GAS leakage by UV curing. Strong adhesive, effective for the leakage which conventional putty could not stop.



**1** Stir the material



**2** Apply on leakage area



**3** Quick hardening with UV ray

(4) Completed !

Effective especially for the leakage on OIL, AIR, and REFRIGERANT PIPES where is difficult to remove oil from the surface.



\*Flash light is included in SHiP+AiD Standard and Delux

Adhesive property (with #1000 surface preparation)

	Stainless, Iron, Acrylic, Glass, Brass, Aluminum, Copper, etc
ය GOOD	PP, PT etc.
😟 POOR	Silicon, Teflon, etc.

\*Depends on material

#### Durability

- Mineral Oil : Good!
- Synthetic Oil : Depends on its component









\* Dip in more than 60℃ hot water in case of crystallization whitening. Then it turn back to normal and can be used as usual.

\* There is "12 pcs package hanger" for sales display.

the repairing surface. Then harden in approx. 15 minutes

Possible to put as double-folding for more pressure and tough use

\* Color turns to light-yellow after few days.

**High Temperarure putty** LAB-METAL **Aluminum putty** 



**EXP: 2 YEARS FROM** MANUFACTURING DATE

### **For repairing** the high temp. flange surface

Lab-metal (Standard) ingle component putty

### Harden like a metal Cont. service temp. 537°C

#### Single component alminum putty It has excellent adhesion to metals such as aluminum, steel and stainless, and wood, resin, glass and the like.

It is a multipurpose metal putty with good useability of single component type and strong adhesion. Adhesion and repair of damaged parts for molds, vehicles and boilers, and painting of welded parts. Heat resistant temperature is 537°C Hi-Temp type and 176°C Standard type.

Hi-Temp (H)

-40~537℃

336g

If dilute it with a diluent, can apply brush and spray. Furthermore, polished after hardening it will shine like a metal.

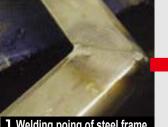
It's suitable for repairing a surface of high temperature flange such as a cylinder head cover of main engine.



Usage : Repair and mold for metal, glass, ceramic, stone, concrete, plastic, wood and etc.

\* To use this product, a mixture of toluene and acetone 1:1 is required. (MEK and toluene 1:1, or even acetone alone can be substituted.)





Standard (R)

Shore D81

45.4kg/cm<sup>2</sup>

1,400 kg/cm

-40~176℃

336g

Aluminum 1.95 at 24°C

15×10<sup>-6</sup> inch/inch per°F

LAB-METAL

Hardness

Tensile strength

Component

Specific gravity

Contents

Temperature

\* Curing time 24hrs

Expansion coefficient

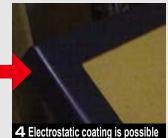
Compressive strength

1 Welding poing of steel frame



**2** Dilute and apply it with brush

**3** After curing, buffing for finish





High Temperarure putty **RESBOND** Ceramic putty

*<b>WATER SOLUBILITY* 

# Stop the high temp. gas leak !





Sealing of exhaust ducts



# Cont. service temp. 1,287°C

For adhesion and sealing of high temperature part, protection and reinforcement of connection part. It is a high-performance repair agent with strong adhesion to all metals and ceramics and corrosion resistance to most solvents and chemicals.

#### **Repair Agent of Boiler**

- ◆ Repair of expansion joint crack
- ◆ Repair of flange gas leakage
- ◆ Repair of refractory

#### Other

It's suitable for a sealing material for diesel engines, gas turbines and turbochargers, for a repair agent for high temp. parts of incinerators and exhaust gas systems.

#### **RESBOND 907GF**

Temperature	1 ,648°C (Max. temp.) 1 ,287°C (Cont. ope. temp.)	
Compressive strength	105kg/cm <sup>2</sup>	
Expansion rate	5%	
Permittivity	3.0 (at 10ºcps)	
Volume resistance	10ºΩ·cm	
Insulation properties	145 volts/mil	
Heat conductivity	6.0 (at 260°C)	
Shrinkage ratio	2%	
Contents	112g	
* Curing time 24hrs		





Watch the detailed usage of this product with the video.





https://youtu.be/fKNIPJflvyA

Built-in type underwater forming epoxy resin filling adhesive material

**AQUA STICK** 



Hardener

1.10 Milky-White

Modified Polvamine

Stick

1.16

Clear

Bondable, fillable for both "underwater"&"wet surface" DRINKING

Built-in type underwater forming epoxy resin filling adhesive material



• Do not use other than specific purposes. • Make sure the working area is well ventilated. • Be careful not to adhere to the skin, and wear protecting mask, gloves, and safety goggles if necessary. • Wipe off immediately when adhered to the skin, then wash with soap and water sufficiently. • Take medical examination if necessary, such as becoming unwell case. • Store in a cool and dark place. Expiry date is 1 year from manufacturing date. • Use it up as soon as possible after opening. • Dispose wastes under the disposal regulations. • Keep, store and dispose in safe to prevent infant and children from touching.

### Non-slip 2 components type lining material NON-SLIP COAT

### Non-slip 2 components type lining material NON-SLIP COAT VIEW

### Safety ensuring starts from YOUR FEET upwards !

Main component of Non-slip coat is epoxy resin, which is excellent in its adhesive force and chemical resistance. Also containing Silica and Ceramic filler improved its durability, revolutionary lining material with high fire-retardant performance corresponded to UL-94 V-0

\*Following preparation is required before below procedures : "1.SURFACE PREPARATION, 2.PASTING MASKING TAPE, 3.STIRRING"







1.Drop the mixed non-slip coat directly to the painting surface

- 2.Spread to a uniform thickness around 1~2mm by rubber spatula
- 3.Use the special made roller for rough-patterning.

4.Wait to be harden



#### 5.0kg set

Main agent 4.5kg
 Hardener 0.5kg



#### •Exclusive Primer (Optional)

M-Primer (1-Liquid type) NET 1kg (Painting area 8  $\textrm{m}^2\sim$  10  $\textrm{m}^2$  )

#### • Exclusive roller for Non-Slip Coat (Optional)

Paper tube roller (standard) : 100mm×Φ38mm× 3 pcs/bag 200mm×Φ38mm× 2 pcs/bag

Short bristle roller (for checkered plate) : 100mm× $\Phi$ 38mm× 2 pcs/bag 230mm× $\Phi$ 38mm× 2 pcs/bag

	NON - SLIP COAT	PAINT+GRINDING STONE	NON - SLIP TAPE	
Anti-slip	Excellent	Poor	Good	
Operability	Excellent	Poor	Good	
Fire resistance	Excellent	Poor	Poor	
Wear resistance	Excellent	Poor	Poor	
Corrosion resistance	Excellent	Very Good	Poor	
Off limit period	1Day	2Days	0Day	
Actual heat resisting temp.	Excellent	Excellent	Good	

#### Features

- High-performance non-slip effects for the materials which could be a cause of slip, such as water, oil and dust.
- Stick very well with base material and hardly peel off. (Metals, Concrete, Asphalt, etc.)
- No need of a primer treatment except rarecase.
   One-time easy painting by exclusive painting roller.
   In order to increase adhesive strength on painting surface of hot-dip galvanizing, optional exclusive primer (M-Primer) available.
- Having self-extinguishing function, corresponded to the world standard of fire resistance "UL-94 V-0"
- Excellent resistance function of water, chemical, and wearing.

#### Usage

- PCC, ladder, stair, etc.
- Rampway of Ro-Ro ferry.
- Slippery area due to water, oil, etc.
- Top board of dangerous / non-dangerous tank, stairs, dike, etc.
- Stairs, passage, lift car path, truck yard around factory and office area. (Also for surface protection purpose)

#### <Notes of base material>

- Please ask before painting on special base material, such as "Color-crete", "Chemi-crete", or dust-proof coating.It peels when paint on such special base materials directly.
- Surface have to be polished by #40 sandpaper when painting on FRP.
- Please ask before painting on large content of glass components surface, such as granite.
- Be aware of dew drop when painting on metals in humid or winter season.
- Not adhesive on glass, silicone, and thermoplastic materials.

#### CAUTION

Refer and follow the guidance on the SDS for health cautions.

Strongly prevent iron corrosion! SELECT COAT - SABI CHANGE

#### **Rust conversion agent**

#### Stop corrosion by chemical change! **Red rust Black rust** Fe<sub>2</sub>O<sub>3</sub> It's more powerful than rust preventive paint. At coating Magnetite Hematite After 30 minutes **Stop corrosion!** Red rust (hematite) turns into black rust (magnetite) Strongly prevent from corrosfon 9 Deck Handrail Piping Valve Are you troubled with rust? Flange Tank Machine tool SELECT COAT - SABI CHANGE Material Aqueous silicone acrylic resin paint Easy to Contents 1kg 16kg Surface SP3 / Hand tool cleaning (Keep red rust) prevent / rust! Preparation Application 2~3Lavers Coating Method Brush or Spray coating 150~200g/m<sup>2</sup>/Layer Qty for application Painting interval 2~3hours Drying time 3~4hours (20°C) 300 さびチェンジ Temperature 130°C JAN code 4560361000287 \* Agitate this paint thoroughly before painting \* Make sure there is no uncoated area. QUEOUS % In coastal areas or salt damage environments, 3 yayers coating is recommended. ※ To keep a stable rust preventive effect, must overpaint on it. \* Recommend to overpaint on this paint after 24hrs if the medium is strong \* It's easy to clean a brush after painting for aqueous paint. % If water is applied on this paint before drying, it may become white as other aqueous paints. Pay attention to the weather and its surroundings so that it will not be esposed to water during painting.

1kg/16kg





Apply SABI Change after the surface preparation (SP3).





After drying, overpaint with general paint.



※ Super bright /SB type is used.

First-Aid kit for your ship SHIP AID Repair agent kit



### Quick Secure

### *First-Aid Kit for your Ship* SHiP+AiD<sup>®</sup> 船の救急箱 シップエイド

### **Ready for any emergency in this one !** *Right repair agent on the right repair spot*

#### First-Aid Kit for your Ship SHiP+AiD Any repair of your ship is made possible with this one! Let's repair your ship easy & quickly with SHiP+AiD.

You can flexibly use repair agents depending on leakage place, temperature, fluid and pressure. Leaks that could not be stopped with one type of repair agent can also be stopped with combining multiple repair agents! Usage is infinite depending on your idea !!

"SHiP+AiD" will greatly reduce the work time-consuming to repair than ever before with a simple repair. And surely that to stop the leak, backtracking work, and eliminate repetitive tasks!

#### (Three of the merit of SHIP+AID)

- 1. In a pinch, you can rush to the scene to take in hand the "SHiP+AiD" without hesitation. Every time, without having to look for a required repair materials, everything is OK, if you have a "SHiP+AiD" !
- 2. Superintendent, chief engineer & the crew can have the common recognition for the repair agent has been standing in your ship. In "right repair agent on the right spot", anyone can be reliably repair!
- 3. The contents of "SHiP+AiD" always be kept constant quantity, it is possible to inventory management. The prevention of "Three No" : "No more" & "No longer available" when needed, are "No more".



### SHiP + AiD®

Based on the advice from superintendents of ship management company, we gathered the repair materials, which are needed for ship repair, in this one. When considering to introduce SHiP+AiD, please try the standard version for your ship at the first as trial.

### SHiP + AiD Dehaxe

A deluxe version is including a product lineup that also supports large diameter piping and "Red Epoxy" which can repair high pressure hydraulic piping. Heavy users who want to repair anything in your ship, please consider deluxe version by all means.



Overseas shipment with this set content is not possible, due to some dangerous goods are included, alternative products will be dispatched for overseas shipment.

	SHIN SHIP+AiD Standard	SHIN SHIP+AID Deluxe
Product Size	W20×L32×H19cm/3kg	W25×L41×H19cm/4.9kg
Applicable ship type	Merchant ship	Merchant ship

#### SHiP+AiD usage example

- Repet of vertous ptptg leaks (weter, see weter, etr & off)
- Repair of aux steam piping leaks
- Repair of exh gas piping leaks
- o Repair of hydraulic piping leaks
- As a reinforcing material to a thinned portion
- Repair of pump casing
- Alternative repair at areas that can not be welded
- Repeir of expansion joint creek
- eureserg rebau galefe rleger o

Product name	Page	Model No.	Content / size	SHIN SHiP+AiD Standard	SHIN SHiP+AiD Deluxe	Num of orders <sup>**2</sup>	Remarks
RED EPOXY	1	_	Base resin(Red) 14.8ml Hardener(White) 14.8ml	_	lset		
RAPIDFIX	2	_	Adhesive 10ml Welding Powder 10ml	lset	lset		
RECTOR SEAL		EP-400	112g	Ірс	2pcs		
	3	EP-200	56g	2pcs	2pcs		
		EP-200W	56g	_	_		
ARLON TAPE GRAY		SRG-2	W25 x L2000mm	_	_		
		SRG-5	W25 x L5000mm	Ірс	1рс		
	4	SRG-11	W25 x L11000mm	_	_		
		SRG-38	W38 x L6000mm	Ірс	2pcs		
		RH-1	W25 x L750mm	Ірс	lpc		
RECTOR HIGH TAPE		RH-2	W50 x L750mm	_	_		
	5	RH-3	W50 x L1500mm	Ірс	1pc		
		RH-4	W75 x L2700mm	Ірс	lpc		
		RH-5	W100 x L4500mm	_	1рс		
RECTOR SUN SHEET*1	7	UV600	W150 x L220 x T1.5mm	_	lsheet		
LEAKEID	9	LA20G	20g	Ірс	1рс		
		LA200G	200g	_	_		
POWER PATCH	10	PA1015	W100 x L150mm	_	lsheet		
		PA1030	W100 x L300mm	_	_		
RESBOND	12	907GF	112g	Ірс	lpc		
AQUA STICK <sup>**1</sup>	10	_	150cc	_	1рс		
	13	_	50cc	_	_		
UV-LED FLASHLIGHT	8	5UV365	5W/365nm AAAx3pcs	Ірс	lpc		
HEAT GUN	1	RHG-1500	1500W 100V 50/60Hz	_	_		
			1	8			

#### (SHIP+AID REPAIR AGENT LIST)

%1 It can not be shipped overseas with other goods due to dangerous goods.

%2 When restock with the repair agent, please copy the above list and use it as a purchase order form.



Scan the QR code so that you can watch movies which illustrates usage of products.

SHiP+AiD

http://ship-aid.com



