

SONGHYUN L&C

PRODUCT GUIDE BROCHURE OF SONGHYUN L&C Co., Ltd.

With our innovative and creative technology,
we are creating a safer world and a happier tomorrow.



SAFETY-LINE SPRAY

GREATER SAFETY

SONGHYUN L&C is a manufacturer of the safety-line spray, which helps create safe and healthy customer lives, by making industrial settings and construction sites safer through innovative and creative technology.

We will always set ourselves new challenges in order to create limitless value for customers' safety.

We will strive for a future free of any safety accidents by developing solutions through which anyone can prevent safety accidents easily and conveniently.

We will continue to grow as a global manufacturer of industrial safety products through our indomitable will and keen enthusiasm.



**We are making the products
safest and most satisfactory
to our customers.**

We will grow as a global enterprise specialized
in safety sprays by developing various safety
sprays that are the foundation of our life
and industry.





OVERVIEW

We will create safety as a priority beyond quality.

We aim to impress our customers with better quality and more excellent technology. Today, as always, SONGHYUN L&C is striving to make the best products to ensure the safety of customers, enhancing industrial settings and construction sites so as to become the primary name entering your mind whenever the phrase “safety-line spray” is mentioned.



SAFETY SPRAY

Safety-line, escape line, fluorescent color, non-slip light reflection, detector, remover, coating agent, flame retardant paint



SAFETY STENCIL

Safe passageway, emergency exit route, emergency exit. Beware of falling, dangerous opening, phosphorescent and reflective sheet



SAFETY TAPING

Machine attaching various safety tapes. Line marking edge applicator



SAFETY TOOL

Various safety goods



Best technology certifications

We make the products considering customers' safety with our technology affirmed by patents.



Patent certificate of the line painting apparatus using the spray



Patent certificate of the anti-slip spray



Patent certificate of the chip removing device in cutting oil



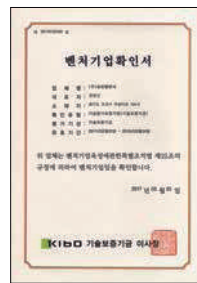
Patent certificate of the diffused reflector coating composition



Certificate of trademark registration "Nudge Safety Spray"



Citation from the Minister of Public Safety and Security



Confirmation as a venture company



Confirmation of preferential purchase recommendation for excellent inventions



Certificate of the quality management system ISO 9001



HISTORY

To us, the past seven years were a period of challenge and adventure. During that time, we have discovered new possibilities and potential for our company.

In the process of vigorous efforts to achieve our higher goals, we have seen sustainable growth of the construction safety goods industry with the safety-line spray.

From now on, we intend to unveil a more brilliant and safer future with the innovative and creative technology of the new era.

- 2010.08 Establishment of business as Songhyun Trading Company
- 2013.02 Registration as a partner of Samsung C&T Corporation
- 2013.06 Establishment as a corporation in the name of Songhyun L&C Co., Ltd.
- 2014.02 Release of Non-slip Spray on the domestic market
- 2014.03 Development and release of the luminescent and fluorescent spray
- 2014.06 Release of the nudge safety-line spray applicator and spray
- 2015.02 Registration of a patent (No. 10-1493912) for the line painting equipment using spray
- 2015.03 Certification as a venture company (KIBO, Korea Technology Finance Corporation)
- 2015.07 Confirmation of preferential purchase recommendation for excellent invention
- 2015.11 Won the award from the Minister of Public Safety and Security at the 1st Korea Safety Technology Meritorious Commendation
- 2015.12 Obtained authorization for establishing the institute of technology from the Korea Industrial Technology Association
- 2016.02 Registration of the trademark of “Nudge Safety Spray” (Korean Intellectual Property Office)
- 2016.04 Release of the Nudge Reflect Light Spray and Nudge Flame-Retardant Spray
- 2016.06 Obtained the certificate of the quality management system ISO 9001
- 2016.11 Won the excellence award from the Minister of Public Safety and Security at the 2nd Korea Safety Industry Meritorious Commendation
- 2017.11 Selection as the Win-win Supporters Venture by Korea District Heating Corp



Nudge safety-line spray



Nudge Safety-line Spray
750ml

Innovation of the safety-line
You can easily draw the safety-line anytime,
anywhere.

Just spray, and then the safety-line will be completed.

The safety-line is sprayed at the sites of construction and manufacturing firms for the laborers and workers to proceed safely.

Nudge safety-line spray applicator and spray are developed for anyone to do the safety-line work easily and conveniently and make it possible to mark the danger warnings and safe passageways with various colors.

The products composed of the modified acrylic paint can be used in various places due to excellent durability and drying speed.

The purchasing cost of this product can be treated as the safety management expenses.

Ministry of Environment and Labor 2AA-1705-124839 (May 24, 2017)

- Features of the product -



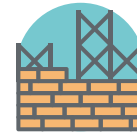
Various line widths
50mm, 75mm, 100mm,
125mm, 150mm



Quick drying time
10 minutes
(based on room
temperature of 20°C)



Various colors
Various colors
applicable



Strong durability
Using the paint
meeting the traffic
grade



Application for patent
No. 10-1493912 Line
painting equipment using
the spray

- Colors of the product -



White



yellow



golden rod



blue



green



red



pink



black



fluorescent
yellow



fluorescent
orange color



fluorescent
red



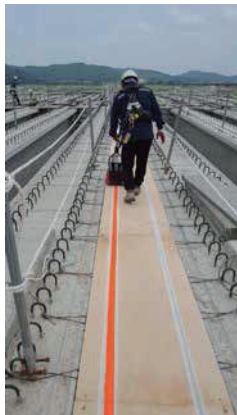
fluorescent
green



fluorescent
white



Safety-line work in the
construction site



Application of the
safety-line in the bridge
construction



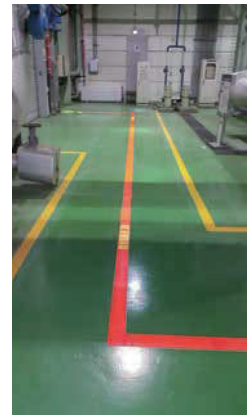
Application of the
safety-line in the
residential area



Application of the
safety-line in the
manufacturing site



Safety-line work in the
logistics center



Safety-line work in the
factory



Nudge Escape-line Spray



Nudge Escape-line Spray
300ml

There is no inconvenience! Just spray once, and then the escape line will be completed.

If you spray the nudge escape-line spray product in advance, you can escape safely along the sprayed phosphorescent light without any confusion when emergency occurs.

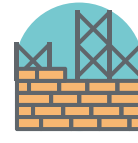
- Features of the product -



Various line widths
Ten minutes based on the room temperature of 20°C



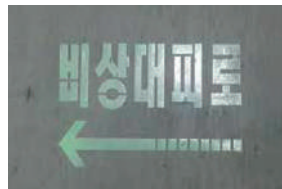
Applicable in various forms
Using various stencils



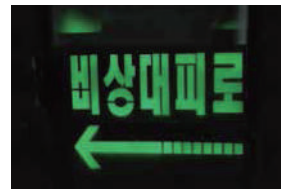
Strong durability
Using paint meeting standards of the traffic grade



Test result of phosphorescent luminance
44cd/m² after 60 minutes by the Korea Fire Equipment Inspection Corporation



Painting the nudge escape-line spray product



Luminescence of the display board at the time of blackout



Guideline of Gwangju Culture Center

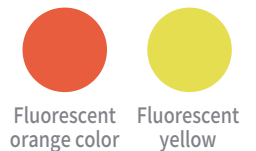


Nudge Neon Spray



Nudge Neon Spray
Two types of 420ml and 750ml

Just spray, and then a brightly shining fluorescent color will be made.

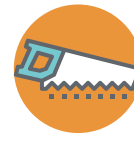


If you apply the nudge neon spray product to the protruded part of equipment, crane hook, etc., you can secure safety as the applied parts are clearly distinguishable, both in daylight and at night.

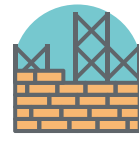
- Features of the product -



Quick drying time
Ten minutes based on the room temperature of 20°C



Applicable in various forms
Using various stencils



Strong durability
Using meeting standards of the traffic grade



Work on emergency exit route of the baseball stadium



Fluorescence work of the crane hook



Fluorescence work of Culture Center

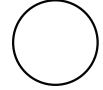


Nudge Non-slip Spray



Nudge Non-slip Spray
420ml

It is a non-slip product containing the antifriction material that can be used conveniently by spraying.



Transparent



Yellow

About 60% of the industrial disasters are safety accidents related to slip. You can definitely prevent safety accidents by using the Nudge Non-slip Spray.

- Features of the product -



Prevention of slip
Using various stencils



Quick drying time
Ten minutes based on the room temperature of 20°C



Strong durability
Using the paint meeting the traffic grade



Patent registration
No.10-1780417 Spray composition for preventing slip



Test result of BPN frictional force
56 (KS F 2375: 2001) by Korea Testing & Research Institute



Applying to temporary metal staircase



Applying to ladder



Applying to the folding work platform

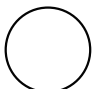


Non-slip Shoes Spray



Non-slip Shoes Spray
220ml

It is a product used easily by spraying in order to prevent slipping of shoes.



Transparent

About 60% of the industrial disasters are related to slipping. You can definitely prevent safety accidents by using the Non-slip Shoes Spray.

- Features of the product -



Preventing slips
Excellent non-slip performance when working in a wet and greasy worksite



Preventing safety accidents
Preventing safety accidents caused by slip by applying to the bottom of work shoes or general shoes



Preventing vehicle slips
Also applicable for preventing tire slip



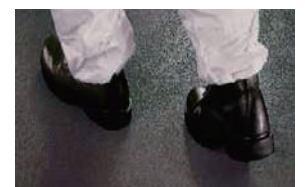
Polymer
Containing polymer resins and friction materials



Easily spraying for use



Applying to the bottom of work shoes and general shoes



Preventing safety accidents caused by slipping



Nudge Reflect Light Spray



Nudge Reflect Light Spray
Two types of 420ml and 750ml

LIGHT REFLECTIVE IN THE DARK



Silver color

Glittering in the daytime and reflecting the light at night!
If you spray the Nudge Reflect Light Spray product to the places dark at night, safety accidents will decrease due to the light reflection.

- Features of the product -



Light reflection
Spray providing excellent reflection efficiency



High index of the light refraction
Function of improving visibility through spray



Silver Glass Bead
Adding the Silver Glass Bead and Glittering paint



Patent registration
No. 10-2016-0089865 Spray having excellent reflection efficiency



After shining the light



After shining the light



After shining the light

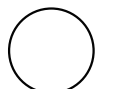


Nudge Flame Retardant Spray (oil-based)



Nudge Flame Retardant Spray
420ml

This flame-retardant product is used easily by spraying.



White
(oil-based)

You can prevent fire from spreading if you spray this product in advance in the places vulnerable to fire.

- Features of the product -



Smoke suppression
When combusting, smoke generation is low and no poisonous gas is generated.



Excellent flame-retardant performance
Flame retardant-performance is excellent. It is recommended to paint more than two times.



Quick drying
Acrylic resin quickens drying.



Before flame retardation



After flame retardation



Nudge Remover Spray



Nudge Remover Spray
420ml

This remover is a product that can be used by easily spraying.

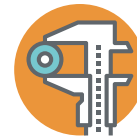
When removing the Nudge Safety Management Spray product, use the Nudge Remover Spray to remove it cleanly.

- Features of the product -



Quick removal time

Remove the Nudge Remover Spray with a piece of cloth within 5 seconds after spraying it



Convenience

Easy and convenient method of use



Safety

You can use the product safely and conveniently.



After using Nudge Remover Spray



After using Nudge Remover Spray



Nudge Coating Spray



Nudge Coating Spray
Two types of 420ml and 750ml

This coating product can be used by easily spraying.

If you coat with the Nudge Coating Spray after applying the Nudge Safety Management Spray product, the durability will become much stronger.

- Features of the product -



Quick drying time

Polymer quickens the drying time.



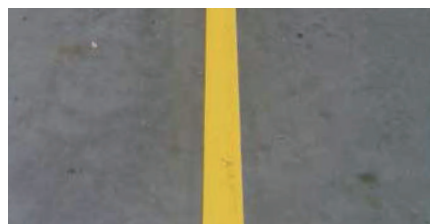
Excellent retentivity

High level of solid component maintains the coating force for a long time.



Strong coating force

Acryl forms a thin coating film.



Applying to the Nudge Guideline Spray



Applying to the Nudge Escape Line Spray

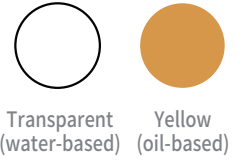


Nudge High Heat Stability Spray



Nudge High Heat Stability Spray
200ml

This is a Nudge High Heat Stability Spray product.



This product has exceeded the limit of the existing heat-resistant paint of 600°C~700°C and maintains its original color even at the direct or indirect temperature of 1200°C as well as minimizes generation of rust by preventing deterioration of the steel structure due to no separation from adhered surface.

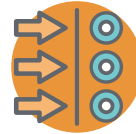
- Features of the product -



High heat resistance
Capable of application at the temperature of 100~130°C on the surface of the painted area



High heat resistance
Product of pure inorganic substances having strong chemical resistance



Easy thermal contraction and expansion
Little separation from the adhered area



Waterproof
Preventing dampness and rust generation after drying



Excellent surface hardness
Excellent surface hardness allowing you to apply other paint after applying the first one



Using high-temperature installation equipment



Using high-temperature installation equipment



Using high-temperature installation equipment



Nudge Detector Spray (Acid, Alkali)



Nudge Detector Spray
420ml

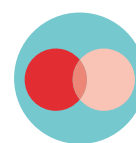
This is the Nudge Acid/Alkali Detector Spray Product.

Spray this product to the parts of fitting, bonding, welding, flange, etc. where tiny quantity of chemicals or fume may be leaked in order to check the accurate leak point due to color change occurring immediately after the leakage and prevent secondary accidents.

- Features of the product -



Detecting acid/alkali
Paint detecting acid/alkali leakage



Detecting acid leakage
When acid is leaked: red
When base is leaked: pink



Convenience
Easy and convenient method of use



Chemical tank lorry vehicle



Tank link flange



Tank dike



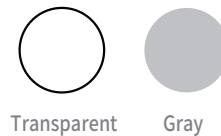
Nudge Long Lasting Anti-Rust Spray



Nudge Long Lasting Anti-Rust Spray
420ml

Nudge strong anti-rust spray product

The spray type is convenient to use.
This product protects all the metals from rust or corrosion.
You can experience a strong anti-rust effect.



- Properties of the product -



NO BLAST
Capable of applying at the temperature of 100~130°C on the surface of the painted area



Chemical resistance
Product of pure inorganic substances having strong chemical resistance



Excellent adhesiveness
Coping flexible with shrinkage and expansion of metal



Excellent corrosion resistance (corrosion prevention)
Preventing corrosion of metal by effectively blocking salt infiltration



Heat resistance
Capable of getting used continuously at temperatures of 300°C or higher



Heat exchange pipes of the thermoelectric power plant



Manhole of the gas station oil tank



Highway piping



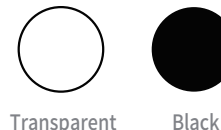
Heat resistance, heat dissipation coating paint



Heat resistance, heat dissipation (nonflammability) coating paint
Three types of 220ml, 5 liters and 18 liters

Nudge Heat Resistance Spray Paint using graphene, the cutting-edge material

This is an inorganic, eco-friendly and inflammable paint having excellent fire resistance and nonflammability.
Graphene, a cutting-edge material having nonflammability, strongly blocks the heat. It has excellent durability and does not generate poisonous gas in the event of fire.



- Features of the product -



SOL GEL Process
New technology product applying SOL GEL Process



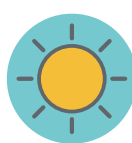
Use of graphene
Use graphene, a cutting edge material, as the heat dissipation material.



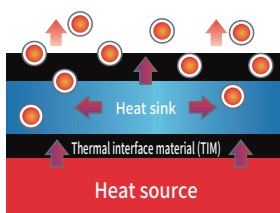
Nonflammable, flame retardant
Maximum heat-resistant temperature of 2000°C



Excellent hardness
About 6-9H in pencil hardness and excellent durability



Resistant to ultraviolet rays
Inorganic and water-based paint which is resistant to ultraviolet rays and eco-friendly



When applying the heat dissipation coating



Nonflammable, flame retardant



Place using high temperature



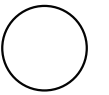
Rust Remover Spray



Rust Remover Spray
500ml

Certification of the product
Compliance with the safety criteria of the product uneasy about hazard based on the Act on Registration, Evaluation, etc. of Chemicals Test and analysis institution: Korea Testing & Research Institute Self-Inspection Number: F-A01B-L001001-A150

Superpower Rust Remover Spray which is eco-friendly and non-toxic



Transparent

This product protects the basic material and removes only rust safely.

- Features of the product -



Easy removal of rust
Removing rust safely without damaging the basic material



Excellent reducibility
Reducing the oxidized metal into the original component



Safety
Not using hazardous inorganic acid (sulfuric acid, hydrochloric acid, nitric acid, phosphoric acid)



Before removing the rust



After removing the rust



Anti-Stickers Paint



Anti-Stickers Paint
7 liters and 18 liters

ANBUTNE 17

The inorganic paints researched and developed by our Company have properties such as nonflammability, high hardness, abrasion resistance, heat resistance, solvent resistance, pollution resistance, etc. of the coating which are characteristics difficult to realize in organic paints.

Our ceramic coating agent is a product manufactured by synthesizing inorganic binders with chemically high-stable inorganic pigments using the Sol-Gel method.

- Properties of the product -



Eco-friendly
Toxic substances, such as VOC, PTFE, PFOT, etc., not detected



Low-temperature drying
Drying at a temperature of 300°C or lower



Hybrid coating
Organic and inorganic hybrid coating agent



SOL GEL Process
Inorganic coating system



Excellent coating hardness
Excellent coating hardness using ceramic paint



Before applying Anti-Stickers Paint



After applying Anti-Stickers Paint



New Line-marking Edge Applicator



Specifications of the product

Weight: 16kg Height: 80cm
Width: 38cm Length: 70cm
Material: SC steel sheet 2T

Properties of the product

- Securing durability using the SC steel sheet for the body material
- Securing the line straightness by using the wide urethane material for the drive wheel
- Equipment capable of applying the spray line width of 5-15cm
- Capable of transparent coating with one application by dual spray device of 2 coat method
- Capable of applying fluorescent and luminous spray two times (Lower application in white and upper application in fluorescent)
- Capable of being used exclusively for logistics center and factory line tape



Line-marking Edge Applicator



Specifications of the product

Weight: 14kg Height: 80cm
Width: 38cm Length: 60cm
Material: SC steel sheet 2T

Properties of the product

- Securing durability using the SC steel sheet for the body material
- Capable of transparent coating with one application by dual spray device using the two-coat method
- Capable of applying to curved section (360-degree rotation possible)
- Capable of applying in a spray method easily and conveniently in a narrow space
- Capable of applying to the guideline of emergency evacuation and safe passageway line in the construction site



Floor Taping Machine & Line Tape



Specifications of the product

Weight: 18kg Height: 71cm
Width: 25cm Length: 60cm
Material: Nickel-plated steel

Properties of the product

- Floor Taping Machine can attach two floor tapes at the same time and quickly and easily attaches the tape parallelly in straight line, and apply various widths of tapes ranging from 2 ~ 15cm.
- Floor Taping Machine is designed ergonomically for you to use without putting strain on the knee.
- Capable of applying in a spray method easily and conveniently in a narrow space
- Capable of application to the guidelines for emergency evacuation and safe passageway line in the construction site



Floor Taping Machine & Line Tape



STEP-1

Spread out the handle after opening the box.



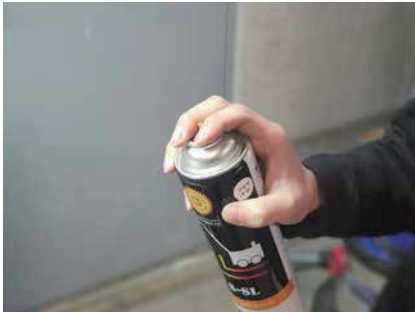
STEP-2

Loosen the arrow bolt.



STEP-3

Mount the arrow in a forward direction



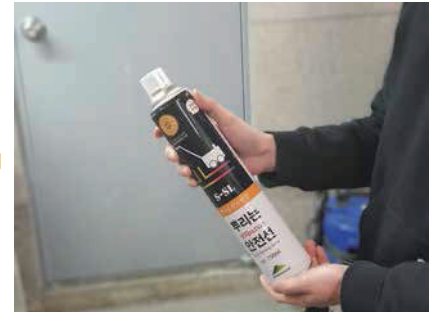
STEP-4

Shake the spray can until the ball sound is heard and then shake for 30 seconds more.



STEP-5

Take out the white nozzle inside the spray can box.



STEP-6

Insert the nozzle so that the click sound is heard. Spray slightly in the air to confirm that gas and paint are sprayed.



STEP-7

Insert the can upside down with the nozzle mounted and align it with the nozzle mold.



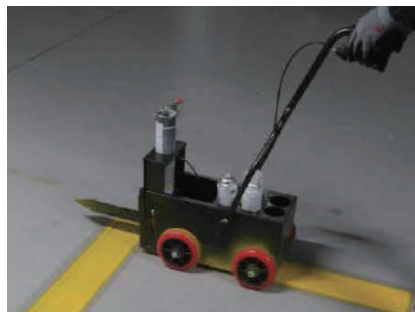
STEP-8

Shut the clamp lid.



STEP-9

Set the height with suitable width for the box mounted with the badge ring and adjust it up and down.



STEP-10

After stretching out a marking line, work while walking slowly.

TIP

Spray the remainder after use once in the air and then lay it for storage.



STEP-11

Work while pulling the handle lever.



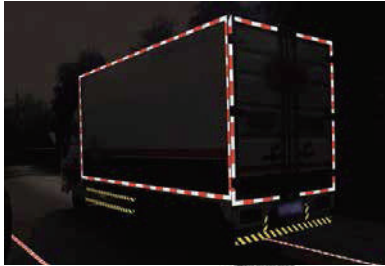
STEP-12

You can quickly and easily do masking parallel in straight line by attaching two floor tapes



Reflective Sheeting

DM9600 ultra-high-luminance reflective tape for vehicles



DM9610



DM9620

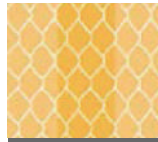


DM9630

DM7600 high-luminance prismatic reflective sheeting



DM7601



DM7602



DM7603

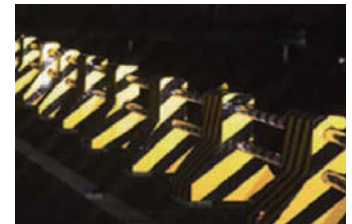
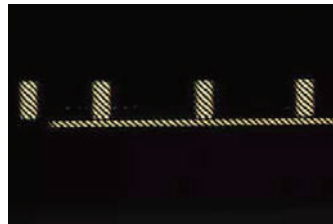


DM7604



DM7605

DM7660 high-luminance prismatic reflective sheeting



- Properties of the product -



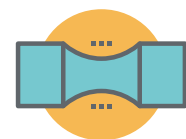
Using the deformation characteristics of the aluminum layer



Enhancing the adhesion



Strong durability



Excellent elasticity

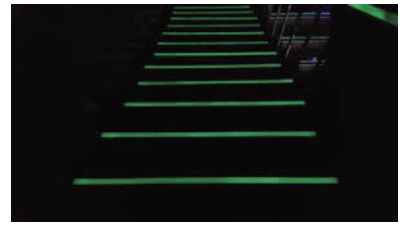
Capable of being attached to the places where general reflective sheets are not easily attached

Specifications of the product Size (roll) : width 1.22m x 45.7m
width 5cm x 45.7m



High Reflective Luminescent Sheet

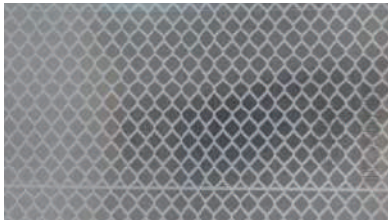
Luminescent non-slip



Luminescent tape



High Reflective Luminescent Sheet



Prismatic Luminous & Reflective Sheeting

SH LRS 7690

[Performance certification of luminescent sign and technical standards of product inspection] (No. 2012-77 of the Notification of National Emergency Management Agency dated February 9, 2012)
The luminance of the marking surface of the induction sign shall be not less than 7 mcd / m² after 60 minutes of light emission at ambient illumination of 01x
<Amended on December 15, 2008>

Application to emergency exit route, basement emergency exit, underground escape routes, emergency exit routes of government offices, karaoke rooms and pubs, prevention of cargo truck collisions, mine work zones, etc.

*The light reflection luminance test result of SHLRS 7690 (ASTM D4956 TYPE IV, EN 12899-1RA2)

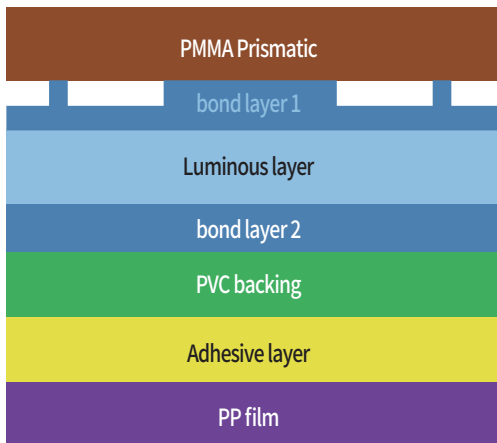
UNIT : mcd/m2

observation angle	entrance angle	white color
0.2°	-4°	360
0.2°	30°	170
0.5°	-4°	150
0.5°	30°	72

*The light reflection luminance test result of SHLRS 7690 (DIN 67510 Class C, JIS Z9107 JC standard)

UNIT : mcd/m2

2 min	10 min	30 min	60 min
690	140	45	20



Ordinary time



Lighted state



Luminescence after lights-out



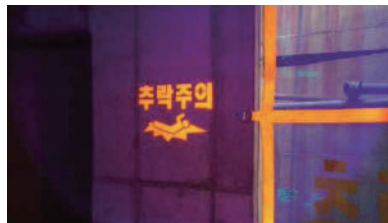
UV Lantern

UV / White dual LED Headlight
-3xAA battery type



Applying safety helmet

UV / White dual LED Handlight
- 385nm 18650 – lithium battery



Case of the site applicatio

UV/Flood lamp - 220V type



Case of the site application



Stencil

Manufacturing and designing various letters and design application frames (MOLD) according to customers' request
(Capable of manufacturing customized patterns, letters and size according to customers' request)



Stencil

- Marking of safe passageway, chevron markings of emergency exit route (left, right), markings of emergency exit, "Watch Your Step", and "Danger! Open Pit"
- PC material. 400x500mm

방폭구역
폭발구역

Blaster Resistance Area
Model No.: SH-9

적재금지
No-Stock

No-Stock
Model No.: SH-14

위험!
낙하물
주의

Danger Overhead! Watch
for Falling Objects (700x500)
Model No.: SH-2

보행자통로

Pedestrian Passage
Model No.: SH-6

미끄럼주의

Caution: Slippery Surface
Model NO.: SH-4

밀폐공간

Blaster Resistance Area
Model No.: SH-9

추락주의
Falling Hazard

Watch Your Step
Model No.: SH-15

소화기

Fire Extinguisher
Model No.: SH-7

Emergency Exit

Emergency Exit
Model No.: SH-19

출입통제

Restricted Area
Model No.: SH-5

접근금지

No Trespassing
Model No.: SH-8

1호 2,3호
44F

Room number on each level (A3)
Model No.: SH-11

안전 제일

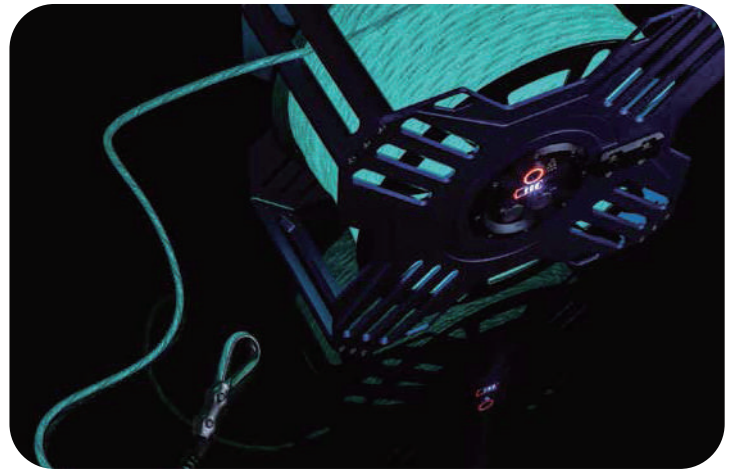
Safety First
Model No.: SH-13

1F 2F 3F 4F
6F 7F 8F 9F
1 2 3 0F 5F

Numbering on each level
Model No.: SH-10



Escape Light Line



- Properties of the product -



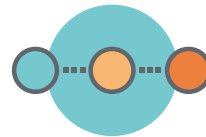
Integral body type
(Inverter, battery,
operating switch)



Durable CNC machining
Aluminum body



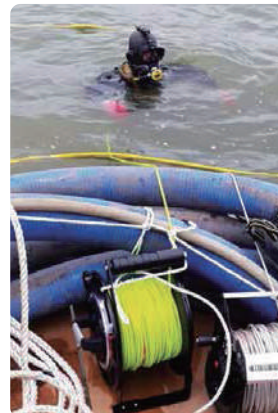
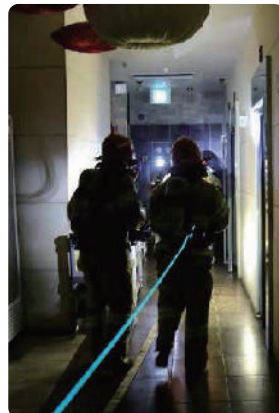
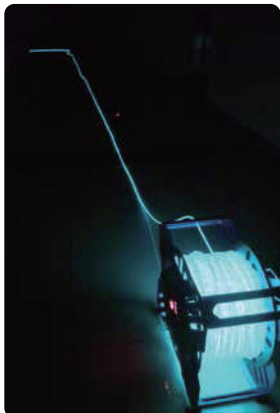
Anodizing surface
finish



Three-step mode function
(lighting, flickering,
heading direction)



Waterproofing structure
of the body (IPX 7)



Equipment used for rescue operations of rescue workers and evacuees and facilitation of their safe evacuation in darkness and smoke in the case of fire in public places (subways, tunnels, underground utility tunnels, buildings) and marine accidents

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SAFETY-LINE SPRAY

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Client & Partnership



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